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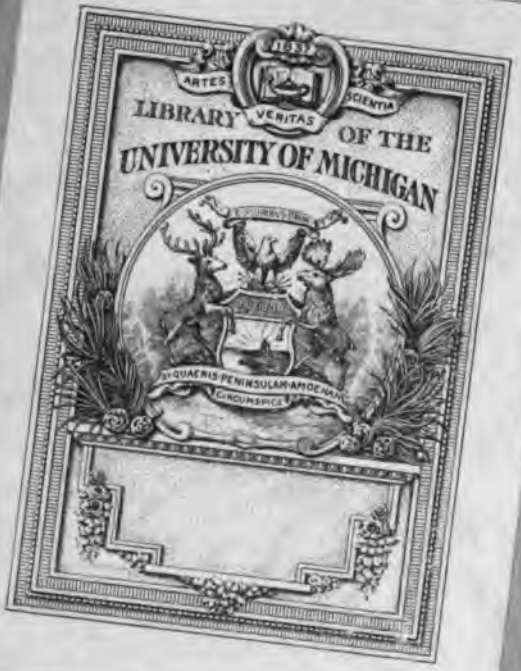
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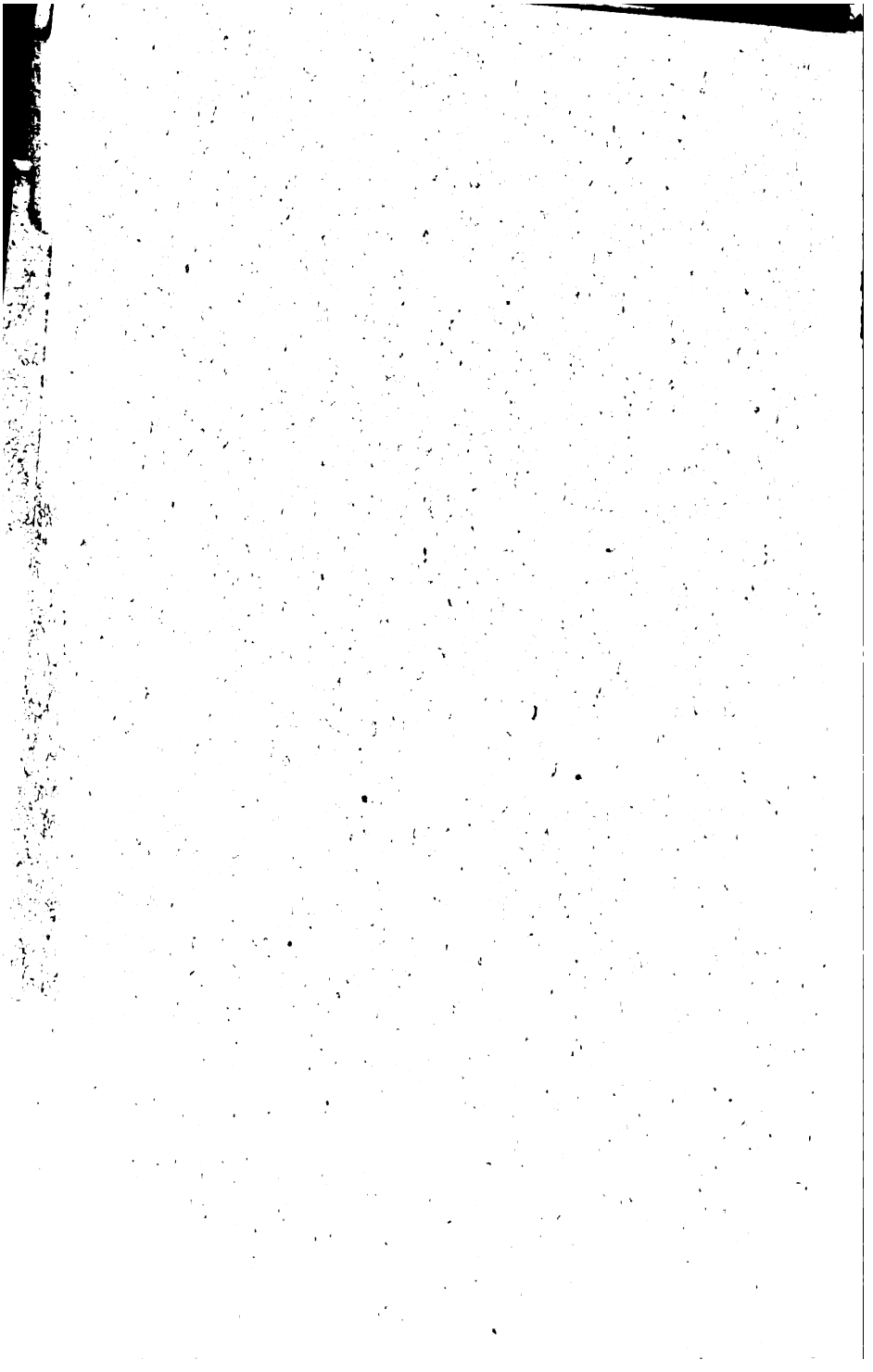

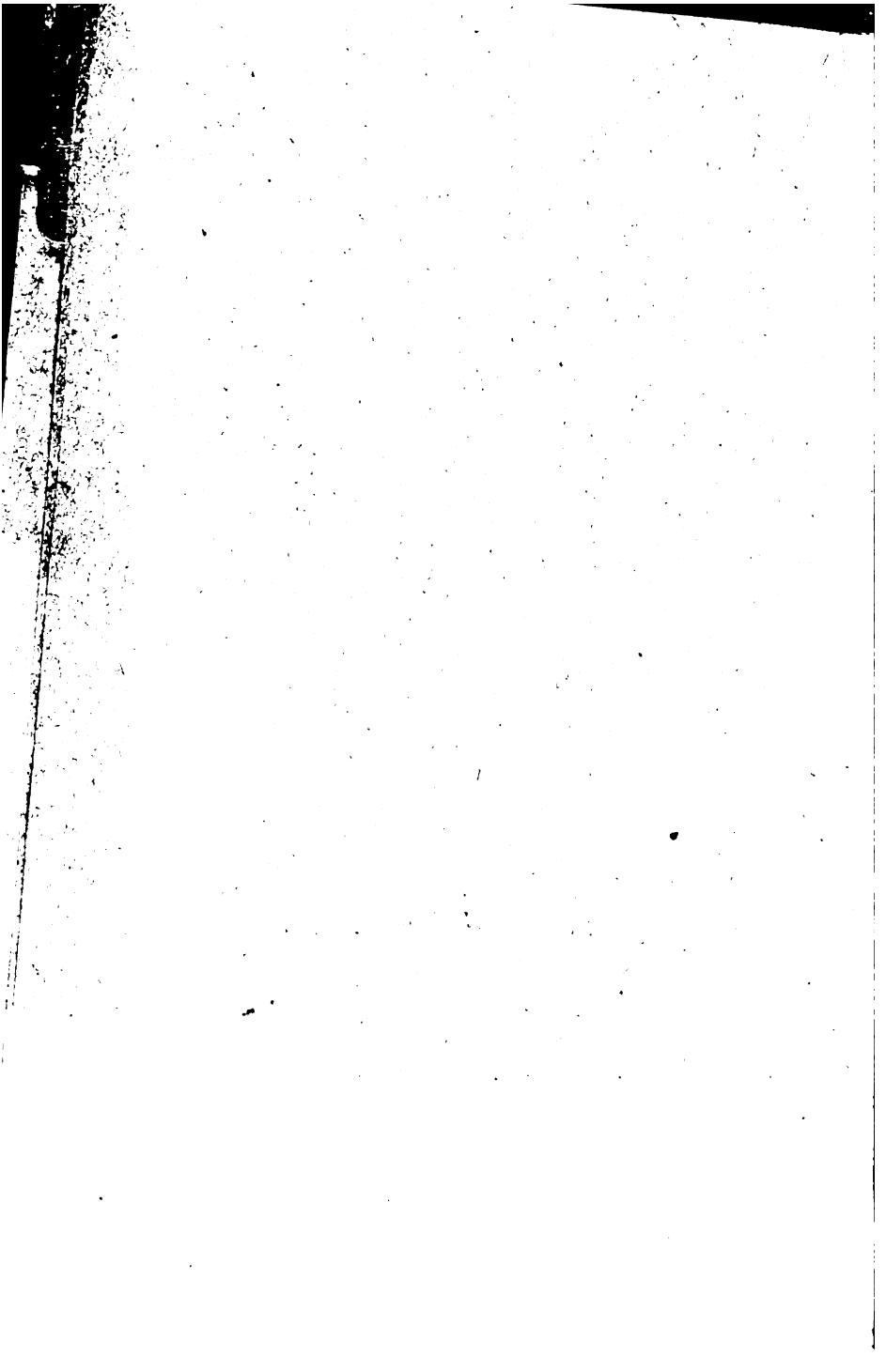

Official Catalogue
of the
United States
Exhibitors
1900
English Edition
International Exposition
Paris

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Paris. Exposition universelle 1900.

CATALOGUE

OF

Exhibitors in the United States Sections

of the

International Universal Exposition Paris, 1900

PARIS
SOCIÉTÉ ANONYME DES IMPRIMERIES LEMERCIER
1900

THE EXHIBITS

IN THE

SECTIONS OF THE UNITED STATES.

The Republic of France issued to her sister republic over the sea an invitation to unite in the International Universal Exposition to be held in Paris in the year 1900, and this invitation the people of the United States accepted with the most cordial gratification. The time of this celebration is the latest landmark of history, marking the division between the expiring century, luminous in its events, and the century to come, yet more alluring with its expectations. The nation which has undertaken the enterprise is of all nations the best fitted in genius, in versatility, in *le savoir faire*, to carry it to a successful issue. The place is the *omphalos* of the world.

To the people of the United States the invitation was a challenge. Only a few years before, upon the farther shore of a remote inland sea, from whose sands the track of the deer and the print of the moccasin were hardly effaced, whose breezes were yet fragrant with the aromatic odors of fir and cedar and pine, that people had evoked an exposition magnificent in outline and perfect in detail, springing up like an exhalation, revealing a strength as of the hills, a breadth as of a western sky, the repose of true grandeur, tinged with the radiance of the aurora of the dawn. To the success of the exposition at the White City the contributions of the French people, acting as individuals and as a nation, were worthy and abundant. Their

generous assistance was cordially received and kindly remembered. When, therefore, that nation, with a spirit of courteous rivalry not less debonair than that displayed by their fathers to our fathers upon the Field of the Cloth of Gold, said to the people of the United States, "Come over the sea, and let us show you how we make an exposition," the people of the United States could not fail to respond.

Nor is this all. Passing by the belief prevalent in every American of youth and culture that Paris and paradise differ in spelling only, one may not fail to note the strong undercurrent of friendship for the French people everywhere prevalent among the people of the United States. It is involved in all the traditions of the nation, and is perpetuated by the instruction given even in its elementary schools. Every schoolboy knows about the material aid given by the French king at the crisis of our revolutionary struggle. He knows of Lafayette and De Grasse and Rochambeau, and of the victory at Yorktown. He knows, too, that fully half of the great continental domain of the United States was once French, under the name of Louisiana. He finds the names of French explorers and missionaries, like Champlain and La Salle, Marquette and Hennepin, with Detroit and Illinois, Saint Louis and New Orleans, written all over the maps of the States. The children of the United States will erect in the heart of Paris, in the park of the Louvre, a memento of their affection for France in the statue which will perpetuate the beloved name of Lafayette.

Beyond all considerations such as we have suggested, it was recognized by every intelligent man of affairs that the time had fully come when the United States of North America should assume its proper place in all the international assemblings of the nations of the world. Whether the subjects to be discussed at such conferences are the

methods of conducting war or the means of preserving peace, whether they are scientific, social, educational, or commercial, the condition of the United States as to area of country, number of inhabitants, wealth accumulated and power of accumulation, the intelligence of her people, their skill, energy, and aggressiveness, their productive and commercial ability and attainment—all the elements of national greatness are present in such degree as to make it incumbent upon her to assert her position among the nations, to take a seat in international councils, and to have a voice in deliberations which concern the welfare of the world. For more than a century the United States has attended strictly to her own affairs, and while she will retain that attitude, she may not forget that her affairs are inextricably involved in the affairs that concern one common humanity.

But responsibilities and duties are inseparable. It was not merely a privilege to accept the invitation of the French nation to join in the exposition of 1900; it was not simply to meet the honorable challenge of a worthy competitor; it was not alone in obedience to a sentiment living in the hearts of her people; it was in response to a well-known and fully appreciated international obligation that the people of the United States, speaking through their representatives in Congress, determined to assume their proper position at the exposition of 1900.

To the invitation the response was, "We come, with full hearts and full hands."

A preliminary investigation and report was made by Moses P. Handy, a special commissioner, whose death, occurring soon after his report was made, all deeply deplored. His mission, both difficult and delicate, was to convey to the French the response of the United States to the proffered invitation, and to report upon the conditions requisite for proper action. On July 1, 1898, Congress

passed enactments authorizing the national participation in the exposition, the appointment of a commissioner-general and other officials, and the appropriation of funds necessary to carry its enactments into effect. The appropriations made at that time, and increased by subsequent legislation, amount in the aggregate to $1,369,500.

Pursuant to that authority, the President appointed Ferdinand W. Peck, of Chicago, Commissioner-General; Benjamin D. Woodward, of Columbia University, New York, Assistant Commissioner-General; and Frederick Brackett, of the Treasury Department, Washington, Secretary. In the organization which was afterward perfected two principal departments were created, one of exhibits and the other of business. Frederick J. V. Skiff, of the Field Columbian Museum of Chicago, was placed at the head of the first as Director-in-Chief of Exhibits, and Paul Blackmar, also of Chicago, at the head of the second, as Director of Affairs. The classification determined by the French authorities provided for the arrangement of exhibits in eighteen groups, but for reasons of economy and of efficiency these groups were distributed by the United States Commissioner among ten chief officers, called directors. In some cases two, or even three, groups were assigned to a single director. The resulting departments are as follows:

Departments.	Directors.
Education and Social Economy,	Howard J. Rogers.
Fine Arts,	James H. Cauldwell.
Liberal Arts and Chemical Industries,	Alexander S. Capehart.
Machinery and Electricity,	Francis E. Drake.
Transportation, Military and Naval Exhibs.,	Willard A. Smith.
Agriculture, Horticulture, and Foods,	Charles Richards Dodge.
Forestry and Fisheries,	Tarleton H. Bean.
Mines and Metallurgy,	Frederick J. V. Skiff.
Textile Industries,	John H. McGibbons.
Furniture and varied Industries,	M. H. Hulbert.

In February, 1900, the President appointed eighteen honorary commissioners, as follows:

Bertha Honore Palmer,	Illinois.
James Allison,	Kansas.
Brutus J. Clay,	Kentucky.
Charles A. Collier,	Georgia.
Michel H. de Young,	California.
William L. Elkins,	Pennsylvania.
Ogden H. Fethers,	Wisconsin.
Peter Jansen,	Nebraska.
Calvin Manning,	Iowa.
Franklin Murphy,	New Jersey.
Henry A. Parr,	Maryland.
Henry M. Putney,	New Hampshire.
Alvin H. Sanders,	Illinois.
Louis Stern,	New York.
William G. Thompson,	Michigan.
William M. Thornton,	Virginia.
Arthur E. Valois,	New York.
Thomas F. Walsh,	Colorado.

Offices were opened at the Auditorium in Chicago, at the Equitable Building in New York, at the Agricultural Department at Washington, and at 20 Avenue Rapp in Paris. Negotiations for space were at once entered upon with the French. After some discussion, in which the highest diplomatic talent of both countries was involved, the authorities responded with a degree of liberality, perhaps as great as the limiting conditions would allow. The aggregate of space which has been assigned to the United States sections is 338,987 square feet gross—that is, inclusive of aisles and passages.

A national pavilion, covering 9,935 square feet of area, and 167.5 feet high, has been erected upon the Quai d'Orsay, in a style worthy of the dignity and position of the nation which it represents. Other buildings have been erected as they were found necessary, upon the Quai d'Orsay, the Esplanade des Invalides, the Avenue Suffren,

and at Vincennes. Several buildings have been erected at Vincennes by exhibitors.

The spaces provided for exhibits from the United States, either by assignment in the great palaces of the exposition or in the buildings erected for the purpose, have been filled with material selected with the care made imperatively necessary by the relatively restricted exhibition areas. The exhibits are thoroughly representative in their various classes. The total number of exhibitors presenting distinct exhibits appears from the catalogue herewith presented to be 6,563. Were the contributors to collective exhibits included in the reckoning, the total number of exhibitors would be considerably more than 7,000. The number of distinct exhibits has not yet been ascertained, as it rests under the necessary uncertainty of the limitation of an exhibit. Conservative estimates will place the number of exhibits at from 25,000 to 30,000.

It is believed that no citizen of the United States need go away disappointed after viewing the exhibits which his country makes at this exposition. It is expected that a reasonable proportion of the articles displayed will receive the commendations of those appointed to determine their comparative merits. The Commissioner-General feels assured that the sections of the United States will present their full share of exhibits notable for conspicuous merit, illustrative of the progress of science and the march of invention. It is nevertheless the fact that the best things of a nation's production—those which contribute most largely to its glory and assign to it a commanding place among its competitors—are such as will not submit to be encased in the pavilions of an exposition, to be ticketed and numbered and inscribed in its catalogue. Some of these things are visible and tangible, like the trains and tracks and bridges of railways; steel buildings that reach above the clouds; the Chicago drainage canal; the Yerkes

telescope; forests and plains; wheat fields bounded by the horizon; cotton fields, ivory white beneath the moon's cold radiance; unbroken areas of rustling maize that a flying train may skirt for an hour; the deep cañons and resounding waterfalls, and the towering summits of snow-clad mountains.

The chief exhibit which the nation of the United States of North America has to present before the world is herself, her people, her institutions, and the results which she has achieved. One hundred and twenty-four years have passed since thirteen British colonies in America declared their independence; one hundred and seventeen since their independence was recognized by the mother country. The years which passed between these events and the opening of the nineteenth century were full of effort and fertile of results, not to be slightly esteemed; but it still remains true that the United States, as viewed at the close of the nineteenth century, has been, in the main, developed within the nineteenth century. Under the methods of the exposition of 1900 it may not be inappropriate to present, with a brevity imposed by the conditions,

A RETROSPECTIVE EXPOSITION OF THE UNITED STATES OF AMERICA.

In 1801 the United States was a country but lately admitted to the family of nations and scarcely come to its majority. Its inheritance was rather *in posse* than *in esse.* Its capital, like many a young man's wealth, consisted chiefly of youth, vigor, hope, and freedom. Its principal asset was a virgin forest, traversed here and there by a stream or a trail, and occupied only by savage and hostile men. A strip of territory, inhabited and cultivated, extended inland from the sea from one hundred to three hundred miles, and along the coast about a thousand miles, having an area of about 280,000 square miles. In this

area dwelt about four millions of people, most of whom were farmers, wrestling hard to wring a scanty subsistence from a churlish soil. There were few manufactories and most of the farmers served themselves in widely varied handicrafts. The wonderful feat was sometimes performed to shear a sheep in the early morning; during the day to carry its wool through the various processes of spinning, weaving, and dyeing; and from the cloth so made to cut out, make, and finish a suit of clothing before the day should end.

Cities were few; Philadelphia and New York in the center, Boston in the north, and Charleston in the south. Philadelphia, the largest of these, numbered only 81,000 inhabitants. Distances were great and journeys were tedious. From Boston to New York the time in a carriage was from one to two weeks, according to the state of the roads and of the weather. The postmaster-general himself carried the mails in a chaise, and the time of service from Washington to New York was about a week.

The titles to territory which the several colonies brought with them into the union of States were generally vague and often conflicting. In some cases the claims ran ostensibly to the Pacific Ocean. When the conflict with the mother country was settled, the United States found itself in possession of an area bounded in the north partially by the great lakes and the St. Lawrence River, on the east by the ocean, on the south by the Spanish possessions of the Floridas, and on the west by the Mississippi River. The area of this territory was about 807,000 square miles.

The first half of the century was especially an era of expansion. The Floridas were obtained from Spain. From France was purchased the Louisiana country, which occupied on the gulf coast the land between the mouths of the Mississippi and the Sabine rivers, extended northwardly along the great river to Canada, and included all the land between

Canada and Mexico as far as the western range then called the Rocky Mountains, but since more definitely known as the Sierra Nevada. West of this range, the Oregon country in the north was claimed by right of discovery. California, with the arid land of the great central plateau, and Texas in the east, came from Mexico, through a combination of influences, of which revolution, conquest, and purchase were the most conspicuous. Without attempting a strict enumeration of metes and bounds, it is enough to note that the United States of to-day occupies a broad belt of land lying across the North American continent from ocean to ocean, from east to west about 3,000 miles, and from north to south about 1,200 miles in extent. The area of its central continental mass is not far from 3,500,000 square miles, besides its outlying portions, Alaska and its dependencies, the islands of Hawaii and Porto Rico, and the recent Philippine acquisitions. The territory acquired during the first half of the century is about double in area that owned at the beginning of that period. The value of the Alaskan country and the utilities of the recent acquisitions are subjects upon which opinions yet differ.

But this acquisition of territory, although the necessary antecedent to subsequent development, is the least important item in the history of progress in the hundred years. Starting at about the beginning of the century and continuing with an ever-swelling tide that does not yet show evidence of diminution, a grand migration of peoples has distributed many millions of inhabitants over this broad land. The movement began in the eastern States of the seaboard, and presently the currents were found flowing from all European lands. Men came seeking free homes or fertile soils or wealth of precious metals. They came because their friends came. They came to escape exactions upon their persons in the shape of military service, upon their purses in the form of severe taxation. They came because

by so doing they could shake off the trammels of oppressive institutions and place themselves where they could think and speak their own free thoughts. This tide of migration swept over the eastern mountains and across the wide interior plain until it surged against the great central mountain masses of the continent. The mountains did not arrest its onward movement, which continued until it covered the western slope even to the Pacific shore. Millions of acres of arable lands came into the possession of millions of men, either without price or at such prices as could be paid out of the profits of a single harvest. As might be expected, the choicest lands are now occupied, but yet there remain millions of acres more well worth the possession of those who would occupy and cultivate them.

After the settler followed those who built railways, laid out towns, founded cities, erected mills, foundries and factories, and wrought in every form of handicraft and of artisan's skill. They built dwellings, they planted forests, they made highways, they erected churches. And near the center of every village the largest, the costliest and the most elegant building, seen from everywhere, and known at once by every stranger, was the public school. Amid the farms, by every hillside, in every valley, in some bright spot planted with trees and decorated with flowers, was the house for the rural district school.

In this movement of the people the railroads did not follow; they led the way. The iron track was pushed across the wild prairie, where were no dwellers; but scarcely were the rails laid before the coming trains brought the coming immigrants, with their families, their cattle, and their household goods, and the wilderness, once inhabited by the timid deer, the lumbering bison, and the howling wolf, and swept by the shadows of the migrating fowl, became a magnificent mosaic of broad farms, everywhere beautified by happy homes, the dwellings of successful

workers. At this close of the century the people of the United States number more than seventy-five millions of souls.

The full significance of this great migration to the United States needs a moment's consideration to be fully understood. From the census of 1880 the fact was ascertained that at least two-fifths of those enumerated were inheritors of citizenship in other countries, chiefly European. Their parents were born elsewhere than in the United States. Later it was the boast of a mayor of Chicago that in his city there were more Irish than in Dublin, more Germans than in Berlin, more Swedes than in Stockholm, more Greeks than in Athens, and so on through a very considerable list. Those native in the United States were in a minority.

In changing their nationalities most of these immigrants had made great sacrifices, often not appreciated until later in their experience. No one knows how large a portion of his capital in life is really an inheritance from his ancestry until he has, for some reason, lost this inheritance and has gone to construct new environments in a distant country. The intangible elements of home, family, social ties, habits, and affections, as well as the visible things, churches with God's acres adjacent, the mountain summits, golden at sunrise or purple at nightfall, the fields lying silent under the midday sun, orchards and meadows, highways and hedges, and the homestead, however humble, have vanished utterly, and must be wholly reconstructed and adjusted to strange conditions. Old things have passed away, and with new scenes and new relationships, new standards of life, duty, freedom, and even of faith, are found to have assumed control.

The immigrant to the United States lost much, but he found much more. First of all, he found freedom in matters political, social, and religious. The trammels of tradi-

tion were loosened, the shackles of caste were shaken off. Even the humblest man became a factor in social organization, and in the forces which control local and general government. It does not follow that in the outset, or even at later periods, he always acted wisely, but it made a great enlargement of his whole spiritual nature that he was able to act at all. He soon learned that freedom meant restraint. Not restraint from without, from sources which would restrict and confine him, but from within, born of the evidence that to be himself free he must respect and protect the liberties of others.

With freedom, he found intelligence, somewhat for himself, but mostly for his children; the intelligence of a public school system everywhere in evidence, though often more notable for the generous diffusion of the opportunities of elementary training than for the extent or completeness of that training. The intelligence diffused by an active and untrammeled press broadened the scope of his vision and constantly rectified his judgments.

Next came unity, a unity which is perhaps the most remarkable characteristic of the new life which these migrated elements presently took upon themselves. Nothing is so remarkable in the history of the increase of the population of the United States, by the gathering of peoples from every land and every clime, as the rapidity and the degree of completeness with which these apparently conflicting elements have become unified as Americans and united as the citizens of a common country. The parents of a family may, for example, be Germans or Poles, Swedes, Swiss, or Irish, as the case may be. They naturally and necessarily retain much of that to which they were born, their habits of life, speech, manners, instincts; little else could be expected. Ask a man of what nationality he is, and he will answer instinctively according to the fact of his birth. But a single generation finds a transformation. The

children are Americans, more intense in their earnest sympathies, more proud of the name and the relationship, more anxious that no mistake be made in the recognition, than are those whose inheritances of a like nature run through several generations of ancestry. The son of an Irishman, a Scandinavian, a German, a Bohemian, is always ready to acknowledge his parentage, but he is still more proud of being born under the stars and stripes, and he wants everybody to be cognizant of the fact.

Whether from the mingling of so many types and the blending of all into one, whether as the result of newly active influences and the elimination of some thought to be effete or harmful, whether from breathing an atmosphere replete with ozone and surcharged with electric forces attractive and repellent, somehow the American has developed a type of character peculiar to himself. Known and read of all men, admired by some, feared by some, but admitted to have a positive function among the forces now active in all mundane affairs, the American—for such the citizen of the United States of America usually styles himself—is decided in his views, nervous and vigorous in expressing them, prompt in action as he is quick in apprehension, respects the future far more than the past, is confident of himself, and has the strength of his convictions. He is cool, clear-headed, and deliberate, and he never recognizes defeat.

The American citizen is himself the most notable element in this retrospective exhibition.

What has he accomplished?

As we have already seen, he has subdued the wilderness, whether forest or prairie, and has dotted it over with millions of farms and homes. The first work of the settler was to provide a shelter for his family. The next was to civilize the soil, which in nature was raw and savage. If his lands were covered with forest, the forest was to be

removed; if the land were prairie, the sod must be disintegrated; fences must be made, roads opened, swamps drained, dwellings and other buildings erected. When the farm was brought into proper subjugation, and was fitted with the equipment and conveniences necessary to make life comfortable and labor remunerative, most of its value consisted in that which its owner had put into it out of his own patient and persevering effort. The land was little more than an opportunity, useful according as it was used.

Assuming that the normal area of a farm is a quarter section of land—that is, a square half a mile long and wide—we find that about 9,000,000 of farms have been made in the United States during the century. In the earlier days the settler paid $100 for his quarter section; in later days he received title to it free of money cost, after he had lived upon it and cultivated it for five years. An estimate of the present value will depend upon a value assumed for the unit, upon which opinions will vary greatly. At $20 per acre, which most valuers would consider low, the aggregate value of the farms of the United States would reach the sum of $115,200,000,000.

An exhaustive estimate of the productive power of these lands will not be attempted. The great variety of soil, of temperature, and of moisture existing in the various parts of an area so extended provide for an equally great variety of possible products. Three items are especially notable, furnishing directly or indirectly the chief articles which the nation may offer in trade with other peoples. These are hay, grain, including principally wheat in the northern and maize in the central regions, and cotton. Wheat and cotton are exported chiefly in their natural, non-manufactured form; hay and maize are used in feeding of animals, and appear in the world's markets transformed into less bulky commodities in the form of animal food products. In respect to cotton the United States stands as the recognized

source from which the world's supply is chiefly drawn. As to grain and meats the United States furnishes the reserve from which other nations may draw when their own resources prove to be inadequate.

A few quotations will indicate the capacity of the United States in these respects.

In 1896 the United States produced of the articles named:

Wheat	430,000,000	bushels, valued at	$429,000,000
Maize	1,903,000,000	bushels, valued at	$501,000,000
All forms of grain	3,227,000,000	bushels, valued at	$1,114,000,000
Hay	60,000,000	tons, valued at	$401,000,000
Cotton	5,677,000,000	pounds, valued at	$294,000,000

The three vegetable products, hay, grain, and cotton, produced in a single year, aggregate a value of $1,809,000,000.

If to this sum be added the values of other products of the soil, less important relatively, but yet of large real moment, such as lumber, vegetables, fruits, tobacco, with the increased value of animal products above that of the food consumed in producing them, the aggregate annual returns from the agricultural resources of the United States do not fall short of $2,500,000,000.

Nor does this express the enormous productive power of this country. In 1897 the mines of the United States yielded quantities and values stated in round numbers as follows:

Iron Ore, 18,000,000 tons.	
Pig Iron, 10,000,000 tons	$ 95,000,000
Coal, 179,000,000 tons	199,000,000
Petroleum, 60,000,000 barrels	41,000,000
Gold and Silver	90,000,000
Copper, Lead and Zinc	73,000,000
Mineral products, metallic	302,000,000
Mineral products, non-metallic	329,000,000

Thus do we present in a few of the more important items the power of the United States of 1900 in the production of material wealth out of its own resources.

Mention has already been made of the railroads as factors aiding the settlement of the country and subjugation of the soil. The history of the growth of railways in the United States is brief, as it is elsewhere in the world. Seventy years only have passed since the beginning of this great industry in this land. In the earlier days the railroads extended themselves slowly; they joined places already established, they accepted routes under the pressure of conditions imposed upon them, they were the servants of the public. In later periods their progress was rapid and irresistible; they pushed beyond the outposts of civilization, moving as an advanced guard into the wilderness, and leaving a finished map behind. The builders swept across the prairies, laying ties upon the ungraded earth, dropping rails from flat-cars, which rolled on over the irons themselves had brought; they spanned the streams and the arroyos; they threaded the cañons; some mountains they climbed, others they pierced. No difficulty was so formidable that it could not be passed by a route that went over or around or through it. The first requisition was to "get there"—from terminus to terminus—by structures no matter how temporary in appearance if only they could endure the tramp of the iron steed. Once the track was laid, it was used as a factor in its own perfection. It was aligned, graded, ballasted, provided with sidings, turnouts, stations, passenger and freight cars, and locomotives. A wide river was crossed by boats; the permanent bridge of steel came later. The mountain was flanked by a switch-back, anticipating the tunnel which afterward pierced it through and through. Thus it happened that the road was in active and profitable use long before it was finished—if, indeed, an American railroad is

ever finished. To-day the trunk lines of the United States, the great arteries of traffic, challenge comparison with any railroads of the world upon the following items: Solidity and durability of permanent way in every minutia of detail; strength and swiftness of motive power; comfort and convenience of its passenger equipment; the accuracy of connections, making all the roads of one great area to act as if they were under the control of a single management; the care with which baggage is handled and the certainty with which it is made to arrive at its destination and be restored to its rightful owner. Sleeping-cars, dining-cars, vestibuled trains, automatic braking systems, self-acting car-couplers, all have their origin and their acme upon the railroads of the United States.

Of these roads, 184,603 miles are in operation. Their service requires 36,000 locomotives, 26,000 passenger cars, 8,000 baggage and mail cars, and more than 1,250,000 freight cars. They represent a capitalization of eleven and a quarter billions of dollars ($11,233,529,588), and their annual earnings are $338,000,000.

The railroad recognizes but one messenger, the telegraph, as fleeter than himself, and this messenger he has taken into his own service. The telegraphs are as ubiquitous as the railroads, having in operation 875,000 miles of wire.

In every form the applications of electricity are constant and effective. Every village has its electric street-car service, its system of electric lighting, and its telephone service. The statistics thereof vary too rapidly to be quoted. One would as soon think of asking if the sun shines in Oshkosh or in Kankakee as of inquiring if electric lights and tramways and telephones could be found there.

Several causes have aided in developing in the United States a manufacturing system scarcely less important than the agricultural system which has been described. The

first is the possession in unlimited amounts, by the gift of nature, of the materials for manufactures. The forests abound in woods, each variety having a peculiar merit. In the making of a heavy farm-wagon more than twenty kinds of wood are used, and each is found in some region which produces it of the quality which best fits it for its peculiar use. Immense fields of anthracite and bituminous coals, scattered all over the country, furnish fuel for the production of motive power. The mountains furnish ores of all the useful metals and of the most excellent quality.

The second cause is the imperative demand for the aid of nature's forces, working through machinery and accentuated by the relative scarcity of manual labor. Men's hands were too few to perform the labor which their heads devised, and the powers of the wandering winds or of running streams or of throbbing steam were made to delve and pound, grind and spin. Four hundred millions of bushels of wheat grown in a single season would fall in the field before such a mass of grain could be reaped with the sickle, or would rot in the stack before it could be thrashed by the flail. Out of such needs came the invention of machinery for doing almost every kind of agricultural labor. Similar causes stimulated invention in other directions, producing machines of which those for sewing, for writing, for setting type are examples.

The third element, and one which produced the greatest effect in the advancement of American manufactures, is the skill which has invented and applied machinery for making machines, after what has been distinctively called the American system. To illustrate what is meant by this term, and its application as well, let us suppose that a complex object, say a revolver, is to be produced in considerable quantities. Doubtless a thoroughly skillful workman can produce the implement by working out piece after piece, fitting, adjusting, failing, and trying again, and in time

evolve one revolver and after that another. But the successful manufacture of revolvers cannot be conducted in that way. The first step will require the careful and complete analysis of the weapon, separating it into its minutest elements, and determining the mechanical processes by which each separate element may be produced in the best and most economical manner. For each process a machine is devised, and this machine is made to do that particular piece of work with the utmost accuracy. So small a thing as a screw may require a separate machine for each of such processes as turning and threading, or slotting the head; each screw produced must be absolutely perfect, answering the strictest tests for length or for diameter. If at any time the screws are found not to answer to the tests, the fault must be sought in the machines which make the screws, and these machines must be readjusted to their special function. A thousand revolvers require one thousand pieces of each different kind, and these pieces, being made each by the same processes, in the action of the same machines, are not acceptable unless each is absolutely perfect, and therefore all of the same kind are absolutely alike. The parts being assembled, the thousand resulting weapons are perfect specimens of their kind. Any piece fits equally well in any revolver.

The method requires high inventive genius in devising and keeping at its best service the varied and intricate machinery which constructs the parts; it requires capital adequate to the outlay; it must be sure of a market which will regularly absorb the product. It requires workmen educated to keep the machinery up to its ideal standard.

This method has been applied to the production of fire-arms, of sewing-machines, writing-machines, watches, bicycles, printing-presses, steam-engines, pianofortes, and other things without number, abundantly displayed at this exposition.

The limits of space permit the presentation of only a few items illustrating the retrospective view of what the United States has accomplished in the nineteenth century. Busy in solving the material problems which nature and necessity have compelled them to consider, her people have neither forgotten nor neglected others of a more strictly scientific, intellectual, or æsthetic character. America with her century of retrospection may not be expected to parallel all the results which Europe may proudly present as the record of a thousand years. But in the living to-day, in proportion to the number of her citizens, she presents in every field of intellectual attainment her sons and daughters, who represent her with distinguished honor. Statesmen, legislators, jurists, soldiers, sailors, historians, discoverers, inventors, authors, poets, painters, sculptors, musicians, educators,—upon the roll of living men in any of these groups the names of Americans will appear, frequent in number and conspicuous in position.

Of two results in education is she particularly proud. The first is the provision generously and universally made for the free instruction of every child within her borders. Every state makes the primary education of its children its especial care, an education sufficient for their guidance in all the ordinary avocations of life. Fourteen millions of children are enrolled in the common schools of the United States. The annual expenditure for their instruction is more than $183,000,000.

The second is the rapid and vigorous development within the last thirty years of technical schools and universities. Among the technical schools those established by the aid of the general government are worthy of special commendation, as upon the foundations so laid have been erected some of the most advanced schools. The last ten years have been especially notable for generous endowments of important universities. Some of the elders, like

Harvard, Yale, Columbia, and Princeton, have acquired large sums, surpassed only by the yet more magnificent endowments which have fallen to the University of California, the Leland Stanford, Jr., University, and the University of Chicago. Endowments are significant of possible opportunities; but much more significant of actual advancement has been the forward steps taken by these institutions, and others as well, by providing instruction in the class of subjects known by common consent as university courses. It is now possible to obtain doctorate standing from American universities equal in actual significance, if not in reputation, to those acquired in European institutions. The day has already arrived when students from other countries are attracted to schools in the United States by the special advantages offered in special lines of study.

The attitude of the United States of America before the other great nations of the world is interesting and peculiar. She is the first great republic of modern times founded upon the freedom, integrity, and intelligence of the citizen. She is free from the traditional inheritances which hamper nations of a longer life. She is isolated in her position, which has been to her a better protection than costly armaments. She has freed herself from the evil influences of human bondage. Her people are intelligent, industrious, and prosperous. She presents in the retrospective exposition of the nations, herself, her people, and her history.

RETROSPECTIVE EXPOSITION.

GROUP III.—CLASS 11.

WYCKOFF, SEAMANS & BENEDICT, New York.—Exposition showing the development of writing machines, from 1863 to 1900.

REMINGTON-SHOLES COMPANY, 127 Rees Street, Chicago.—Retrospective exhibit of writing machines.

GROUP IV.—CLASS 19.

FRANCIS E. DRAKE, Director of the Department of Machinery, Cleveland, Ohio.—Exhibit of improvements in steam engines.

CLASS 20.

FRANCIS E. DRAKE, Director of the Department of Machinery, Cleveland, Ohio.—Exhibit of various motors and their improvement.

CLASS 21.

FRANCIS E. DRAKE, Director of the Department of Machinery, Cleveland, Ohio.—Exhibit of improvements in various machines.

CLASS 22.

FRANCIS E. DRAKE, Director of the Department of Machinery, Cleveland, Ohio.—Exhibit of improvements in machine-tools.

GROUP V.—CLASS 23.

FRANCIS E. DRAKE, Director of the Department of Electricity, Cleveland, Ohio.—Exhibit of apparatus for the production and mechanical utilization of electricity.

CLASS 24.

FRANCIS E. DRAKE, Director of the Department of Electricity, Cleveland, Ohio.—Exhibit of articles applicable to electro-chemistry.

CLASS 25.

FRANCIS E. DRAKE, Director of the Department of Electricity, Cleveland, Ohio.—Exhibit of apparatus applicable to electric lighting.

CLASS 26.

FRANCIS E. DRAKE, Director of the Department of Electricity, Cleveland, Ohio.—Exhibit of apparatus applicable to telegraphy and telephony.

CLASS 27.

FRANCIS E. DRAKE, Director of the Department of Electricity, Cleveland, Ohio.—Exhibit of various applications of electricity.

GROUP VI.—CLASS 29.

WILLARD A. SMITH, Director of the Department of Civil Engineering, Chicago.—Exhibit illustrating the development of the construction of bridges in the United States.

CLASS 30.

AMERICAN BICYCLE COMPANY, New York.—Retrospective exhibit of bicycles, showing the evolution of their construction.

CLASS 32.

WILLARD A. SMITH, Director of the Department of Transportation, Chicago.—Exhibit showing the development of railway carriages and of locomotives.

CLASS 33.

MASSACHUSETTS, STATE OF, Boston.—Exhibit of vessels, showing the development of their construction from 1626 to 1900.

GROUP VII.—CLASS 35.

DEERING HARVESTER COMPANY, Chicago.—Exhibit showing the progress in one hundred years in the means of harvesting grain.

CATALOGUE OF EXHIBITS

FROM THE

UNITED STATES OF AMERICA.

GROUP I.

EDUCATION AND INSTRUCTION.

HOWARD J. ROGERS, DIRECTOR.

CLASS 1.

EDUCATION OF THE CHILD. ELEMENTARY INSTRUCTION. INSTRUCTION OF ADULTS.

American Book Company, New York City.
School publications and text-books.

American School Board Journal, Milwaukee, Wisconsin.
Publication.

American School Furniture Company, New York City.
School furniture and appliances.

Bardeen, C. W., Syracuse, New York.
School publications and text-books.

Blow, Susan E., Cazenovia, New York.
Monograph on the kindergarten.

Board of Education, Albany, New York.
Photographs, reports, pupils' work.

Board of Education, Aurora, Illinois.
Reports.

Board of Education, Binghamton, New York.
Photographs.

Board of Education, Boston, Massachusetts.
Photographs, reports. blanks, pupils' work.

Board of Education, Cairo, Illinois.
Photographs, reports, pupils' work.

Board of Education, California State, Sacramento, California.—Photographs, reports, laws, blanks.

Board of Education, Chicago.
Examination of teachers; courses of study, pupils' work, reports, blanks. Child study, physical measurements. Photographs.

Board of Education, Cleveland, Ohio.
Photographs, reports, blanks, drawing work.

Board of Education, Coldwater, Michigan.
Photographs of building, pupils' work.

Board of Education, Columbus, Georgia.
Photographs, reports, laws, blanks.

Board of Education, Denver, Colorado.
Photographs, reports, blanks, pupils' work.

Board of Education, Erie, Pennsylvania.
Photographs, reports, blanks.

Board of Education, Fort Scott, Kansas.
Pupils' work.

Board of Education, Galesburg, Illinois.
Report. History of the High School.

Board of Education, Kansas City, Missouri.
Reports and photographs.

Board of Education, Los Angeles, California.
Photographs, reports, blanks, pupils' work.

Board of Education, Malden, Massachusetts.
Public school work.

Board of Education, Massachusetts State, Boston, Mass.
Annual report; school reports of the 353 towns and cities of the state; monographs, catalogues, office blanks.
Chicago, 1893, medal.

Board of Education, Middletown, New York.
Photograph of buildings, pupils' work.

Board of Education, Minneapolis, Minnesota.
Photographs, reports.

Board of Education, Missouri State, Jefferson City, Missouri.—Photographs, reports, laws, blanks.

Board of Education, Nashua, New Hampshire.
Photographs, pupils' work.

Board of Education, Newark, New Jersey.
Photographs, reports, blanks, pupils' work.

Board of Education, New Bedford, Massachusetts.
Public school work.

Board of Education, New Jersey State, Trenton, New Jersey.—Photographs, reports, laws, blanks.

Board of Education, New York City.
Organization, management, equipment of public school system, results.

Board of Education, Omaha, Nebraska.
Photographs, reports, blanks used, pupils' work.

Board of Education, Paterson, New Jersey.
Photographs, reports, blanks, pupils' work.

Board of Education, Pensacola, Florida.
Photographs, reports, blanks, pupils' work.

Board of Education, Peoria, Illinois.
Photographs.

Board of Education, Rhode Island State, Providence, Rhode Island.—Photographs, reports, laws, blanks.

Board of Education, Rochester, New York.
Photographs of kindergartens.

Board of Education, Saratoga Springs, New York.
Drawing work.

Board of Education, Somerville, Massachusetts.
Public school work.

Board of Education, Springfield, Massachusetts.
Public school work.

Board of Education, St. Louis, Missouri.
Photographs, pupils' work.

Board of Education, Tacoma, Washington.
Photographs, reports, blanks.

Board of Education, Terre Haute, Indiana.
Historical sketch; administrative forms; photographs.

Board of Education, Toledo, Ohio.
Photographs, reports, blanks, pupils' work.

Board of Education, Utica, New York.
Photographs, reports, blanks, pupils' work.

Board of Education, Washington, D. C.
Photographs, pupils' work.

Board of Education, West Springfield, Massachusetts.
Public school work; photographs, reports, blanks.

Board of Education, Whitehall, New York.
Manual training work of high school pupils.

Board of Education, Wilkesbarre, Pennsylvania.
Portfolio of drawings.

Board of Education, Worcester, Massachusetts.
Public school work.

Board of School Directors, Harrisburg, Pennsylvania.
Photograph of buildings; reports, regulations.

Bureau of Education, U. S. A., Washington, D. C.
Charts, statistics, publications.

Central School Supply House, Atlas Block, Chicago.
Relief map of the United States.

Denton Brothers, Wellesley, Massachusetts.
Natural history collections for school use.

Department of Education, U. S. Commission to Paris.
Administrative and organization blanks of public school systems. Nineteen monographs on education in the United States. Graphic charts illustrating educational development in the United States. Photographs, publications and results obtained.

Draper, Andrew Sloan, University of Illinois, Champaign, Illinois.—Monograph on educational organization and administration.

Educational Review, New York City.
Publications.

Harris, William T., Commissioner of Education, Washington, D. C.—Monograph on elementary education.

Hinsdale, B. A., University of Michigan, Ann Arbor, Michigan.—Monograph on training of teachers.

Howell, Edwin E., Washington, D. C.
Relief maps of the continents and adjacent ocean bottoms.

Inland Publishing Company, Terre Haute, Indiana.
School and college text-books.

Journal of Education, Boston, Massachusetts.
Publications.

Keen, Dora, Philadelphia, Pennsylvania.
System of developing children of low intelligence.

Milton Bradley Company, Springfield, Massachusetts.
Materials and appliances for kindergartens.

Morrison, Gilbert B., Kansas City, Missouri.
Monograph on school architecture and hygiene.

Mott, John M., 6106 Woodlawn Avenue, Chicago.
Phonetic alphabet with spellings in five languages.

National German-American Teachers' Seminary, Milwaukee, Wisconsin.—Herbarium of the flora of the United States.

New York Education, Albany, New York.
Publication.

Normal Instructor, Dansville, New York.
Publication: The Normal Instructor.

Pennsylvania School Journal, Harrisburg, Pennsylvania.
Publications.

Perry Pictures Company, Malden, Massachusetts.
School charts and publications.

Prang Educational Company, New York City.
Educational publications.

Primary Instructor, Boston, Massachusetts.
Publications.

Public Instruction, Colorado State Department of, Denver, Colorado.—Photographs, reports, laws, blanks.

Public Instruction, Illinois State Department of, Springfield, Illinois.—Photographs, reports, laws, blanks.

Public Instruction, Indiana State Department of, Indianapolis, Indiana.—Photographs, reports, laws, blanks.

Public Instruction, Iowa State Department of, Des Moines, Iowa.—Photographs, reports, laws, blanks.

Public Instruction, Kansas State Department of, Topeka, Kansas.—Photographs, reports, laws, blanks.

Public Instruction, Maryland State Department of, Baltimore, Maryland.—Photographs of buildings, reports.

Public Instruction, Montana State Department of, Helena, Montana.—Pamphlets.

Public Instruction, Nebraska State Department of, Lincoln, Nebraska.—Reports, laws, blanks.

Public Instruction, New York State Department of, Albany, New York.—Reports, blanks, publications.

Public Instruction, North Carolina State Department of, Raleigh, North Carolina.—Reports, laws, blanks.

Public Instruction, North Dakota State Department of, Bismarck, North Dakota.—Photographs, reports, laws, blanks.

Public Instruction, South Dakota State Department of, Pierre, South Dakota.—Photographs, reports, laws, blanks.

Public Instruction, Wisconsin State Department of, Madison, Wisconsin.—Photographs, reports, laws, blanks.

School Bulletin, Syracuse, New York.
Publications.

School Journal, New York.
Publications.

Silver, Burdett & Company, Boston and New York.
Educational publications.

Stern's School of Languages, New York City.
Method of instruction in French and German.

Western School Journal, Topeka, Kansas.
Publication: Western School Journal.

CLASS 2.

SECONDARY EDUCATION.

SECONDARY EDUCATION OF BOYS; CLASSICAL EDUCATION; MODERN EDUCATION; EDUCATION OF GIRLS.

Albany Female Academy, Albany, New York.
Maps, photographs (girls' education).

American Book Company, New York.
Educational publications.

American School Board Journal, Milwaukee, Wisconsin.
Publications.

American School Furniture Company, New York.
School furniture and appliances.

Bardeen, C. W., Syracuse, New York.
Educational publications.

Board of Education, Albany, New York.
Photographs, reports, blanks, pupils' work.

Board of Education, Boston, Massachusetts.
Photographs, reports, blanks, pupils' work.

Board of Education, California State, Sacramento, California.
Photographs, reports, blanks.

Board of Education, Chicago.
Courses of study and pupils' work in high schools. Photographs of buildings; laboratories, gymnasiums; physical measurements.

Board of Education, Cleveland, Ohio.
Photographs, reports, blanks, drawing work.

Board of Education, Denver, Colorado.
Photographs, reports, blanks, pupils' work.

Board of Education, Kansas City, Missouri.
Reports, photographs.

Board of Education, Malden, Massachusetts.
Public school work.

Board of Education, Massachusetts State, Boston, Mass.
Annual reports; school reports of the 353 towns and cities of the state; monographs, catalogues. Office blanks.

Board of Education, Minneapolis, Minnesota.
Photographs, reports (public schools).

Board of Education, Newark, New Jersey.
Photographs, reports, blanks, pupils' work.

Board of Education, New York City.
Organization, management, equipment of public school system; results obtained.

Board of Education, Omaha, Nebraska.
Photographs, reports, blanks used, pupils' work.

Board of Education, Peoria, Illinois.
Photographs.

Board of Education, Somerville, Massachusetts.
Public school work.

Board of Education, Springfield, Massachusetts.
Public school work.

Board of Education, St. Louis, Missouri.
Photographs, pupils' work.

Board of Education, Vermont State, Montpelier, Vermont.
Photographs, reports, laws, blanks.

Board of Education, Washington, D. C.
Photographs, pupils' work.

Board of Education, Worcester, Massachusetts.
Public school work.

Brown, Elmer Ellsworth, Berkeley, California.
Monograph on secondary education.

Denton Brothers, Wellesley, Massachusetts.
Natural history collections for schools.

Department of Education, U. S. Commission to Paris.
Collective exhibit of photographs, publications and results obtained in public school work. Administration blanks, etc.

Educational Review, New York.
Publications.

Foote Mineral Company, Philadelphia, Pennsylvania.
Collections of minerals for schools and colleges.

Hinsdale, B. A., University of Michigan, Ann Arbor, Michigan.—Monograph on training of teachers.

Journal of Education, The, Boston, Massachusetts.
Publications.

Keen, Dora, Philadelphia, Pennsylvania.
System of developing children of low intelligence.

Morrison, Gilbert B., Kansas City, Missouri.
School architecture and hygiene.

New York Education, Albany, New York.
Publications.

Pennsylvania School Journal, Harrisburg, Pennsylvania.
Publication.

Perry Pictures Company, Malden, Massachusetts.
Publications and school charts.

Physical Education Society of New York and Vicinity, New York City.—Photographs, statistics, publications.

Prang Educational Company, New York City.
Educational publications.

Public Instruction, Colorado State Department of, Denver, Colorado.—Photographs, reports, laws, blanks.

Public Instruction, New York State Department of, New York.—Statistics, courses of instruction for secondary schools.

School Bulletin, Syracuse, New York.
Publications.

School Journal, New York.
Publications.

School Review, Chicago.
Publications.

Silver, Burdett & Company, Boston and New York.
Educational publications. Secondary education.

Society, Beck Literary, Albany Academy, Albany, New York.
Statistics, etc.

Thiry, J. H., Long Island City, New York.
Statistics and reports relating to school savings banks.

Velasco School of Languages, The, 283 Schermerhorn St., Brooklyn, New York.—Portfolios of written work.

Washington University, St. Louis, Missouri.
Manual training department; clay models; manual training work.

Western School Journal, Topeka Kansas.
Publications.

CLASS 3.

HIGHER EDUCATION. SCIENTIFIC INSTITUTIONS.

Adams, Herbert B., Baltimore, Maryland.
Monograph on summer schools and University extension.

American Book Company, New York.
Publications for superior education.

American Library Association, Albany, New York.
Statistics, publications, library appliances.

American School Furniture Company, New York City.
School furniture and appliances.

American Museum of Natural History, New York.
Photographs and papers illustrating methods in research and anthropology.

Association of Collegiate Alumnae, 183 Delaware Ave., Buf- falo, New York.—Charts, photographs, methods specially applied to superior education of women.

Bardeen, C. W., Syracuse, New York.
Publications and educational books.

Board of Education, Massachusetts State, Boston, Mass.
Collective exhibit of state normal schools.

Brown and White, Easton, Pennsylvania.
Publication.

Brown Herald, Providence, Rhode Island.
Publication.

Bryn Mawr College, Bryn Mawr, Pennsylvania.
Photographs, publications, charts, special work.

Catholic University of America, Washington, D. C.
Photographs, publications.

Cattell, James McKeen, Columbia University, New York.
Monograph on scientific societies and associations.

Cercle Francais de l'Universite Harvard, Cambridge, Massa-
chusetts, per James Hazen Hyde.—Photographs, programs, publications, charts of methods of the society, statistics.

Colby College, Waterville, Maine.
Photographs, publications.

Columbia Spectator, New York City.
Publication.

Columbia University, New York City.
University publications, library, education, psychology, and law.

Congressional Library, Washington, D. C.
Photographs, publications, charts.

Cornell Daily Sun, Ithaca, New York.
Publication.

Cornell University, Ithaca, New York.
Charts, publications, photographs of appliances of the University and of engineering and pedagogical sections.

Dana Natural History Society, Albany, New York.
Publications.

Department of Education, U. S. Commission to Paris.
Collective exhibit of material illustrating phases of college work. Series of graphic charts illustrative of educational development in the United States. Student publications in American colleges. Theological schools. Typical college games and sports.

Educational Review, New York.
Publication.

Foote Mineral Company, Philadelphia, Pennsylvania.
Collections of minerals for schools and colleges.

Fredonia Normal School, Fredonia, New York.
Photographs, various charts, statistics.

Harvard Crimson, Cambridge, Massachusetts.
Publication.

Harvard Lampoon, Cambridge, Massachusetts.
Publication.

Harvard University, Astronomical Observatory, Cambridge, Massachusetts.—Charts, astronomical objects, illuminated photographs.

Harvard University, Cambridge, Massachusetts.
Photographs, charts, maps, publications. Peabody Museum. glass models of flowers.

Hemment, J. C., 110 Fifth Ave., New York City.
Photographs of sports and games in American colleges.

Illini, The, Champaign, Illinois.
Publication.

Johns Hopkins University, Baltimore, Maryland.
Scientific publications; maps of solar spectrum; work in biology, pathology, geology, and climatology.

Lafayette, Bethlehem, Pennsylvania.
Publication.

Lafayette College, Easton, Pennsylvania.
Photographs of buildings and grounds.

Lehigh University, South Bethlehem, Pennsylvania.
Photographs, publications, statistical charts.

MacFarlane, Alexander, South Bethlehem, Pennsylvania.
Treatise upon geometry in space.

Massachusetts Commission to the Paris Exposition.
Monograph upon the system of Normal Schools in Massachusetts.

Massachusetts Institute of Technology, Boston, Mass.
Charts, statistics, publications, photographs, program, and work.

Mendenhall, T. C., Worcester, Massachusetts.
Monograph on scientific technical and engineering education.

Mt. Holyoke College, Mt. Holyoke, Massachusetts.
Map, photographs.

Oberlin College, Oberlin, Ohio.
Photographs, statistical charts.

Oswego Normal School, New York.
Publications, school work, manual training, photographs.

Parsons, James Russell, University of the State of New York, Albany, N. Y.—Monograph on professional education.

Pedagogical Seminary, Worcester, Massachusetts.
Publications.

Pennsylvanian, Philadelphia, Pennsylvania.
Publication.

Perry, Edward Delavan, Columbia University, New York.—Monograph on the American university.

Prang Educational Company, New York City.
Educational publications.

Princetonian, Princeton, New Jersey.
Publication.

New York University, School of Pedagogy, New York City.
Charts, plans and investigations in the pedagogic department.

Public Instruction, New York State Department of, Albany, New York.—Reports, blanks, pamphlets. Normal school exhibit.

Rutgers College, New Brunswick, New Jersey.
Photographs, charts, statistics.

St. Francis Xavier, College of, New York City.
Photographs, publications.

Silver, Burdett & Company, New York.
School publications and text books.

Smith, Harlan J., New York.
An archeological study of Lytton, British Columbia.

State Normal College, Michigan, Ypsilanti, Michigan.
Photographs, publications, charts, and statistics.

State Normal College of Pennsylvania, Westchester, Pennsyl- vania.—Written work, photographs of buildings.

Stevens Institute of Technology, Hoboken, New Jersey.
Photographs, publications.

Teachers' College, Columbia University, New York City.
Organization, equipment, results obtained.

Thomas, M. Carey, Bryn Mawr College, Bryn Mawr, Pennsylvania.—Monograph on education of women.

University of California, Berkeley, California.
Architects' plans of buildings and grounds.

University of Chicago, Chicago.
Physics, apparatus, astronomy, photographs; history, sociology, charts; University extension division; charts, publications.

University of Colorado, Boulder, Colorado.
Photographs, charts, statistics.

University of Iowa, Iowa City, Iowa.
Photographs of buildings, special publications.

University of Minnesota, Minneapolis, Minnesota.
Charts, statistics, photographs.

University of Missouri, Columbia, Missouri.
Photographs.

University of Pennsylvania, Philadelphia, Pennsylvania.
Charts, graphics, and photographs illustrative of the departments of archeology, chemistry, and medicine.

University of Princeton, Princeton, New Jersey.
Photographs, publications, statistical charts.

University of the State of New York, Albany, New York.
Methods of education by means of reading and rotating libraries.

University of the State of New York, Museum Department, Albany, New York.—Publications pertaining to paleontology.

University of Wisconsin, Madison, Wisconsin.
Collection of charts, graphics, photographs, special methods, and investigations.

University of Wyoming, Laramie, Wyoming.
Photographs.

Vassar College, Poughkeepsie, New York.
Special works in history and sociology.

Wake, C. S., Field Columbian Museum, Chicago.
Publication: Philosophical diagrams.

Wellesley College, Wellesley, Massachusetts.
Work of the college in philosophy and literature.

West, Andrew Fleming, Princeton University, Princeton, New Jersey.—Monograph on the American College.

Wilson, Mrs. L. L. W., Philadelphia, Pennsylvania.
Graphic chart showing the methods of teaching natural history in the Philadelphia Normal School.

Yale University, New Haven, Connecticut.
Exhibit from Sheffield Scientific School; exhibit relating to paleontology.

CLASS 4.

SPECIAL EDUCATION IN FINE ARTS.

INSTITUTIONS FOR TEACHING DRAWING AND MUSIC.

American Book Company, New York.
School publications and text books.

Art Students' League of New York, 215 West 57th St., New York City.—Students' work.

Bailey, Henry, Boston, Massachusetts.
Monograph on the history of art education in Massachusetts.

Clarke, Isaac Edwards, Department of Education, Washington, D. C.—Monograph on artistic and industrial education.

Fine Arts School of Chicago, Chicago.
Charts, statistics, publications, explanatory works of students.

Normal Art School, Boston, Massachusetts.
Illustrative work of school.

Prang Educational Company, New York.
Educational publications.

Silver, Burdett & Company, New York.
School publications and text books.

CLASS 5.

SPECIAL EDUCATION IN AGRICULTURE.

Higher or scientific education in agriculture, veterinary science and forestry; instruction in which theory takes precedence over practice; instruction in which practice takes precedence over theory; practical instruction in apprentice schools; special schools for technical instruction in industries related to farming; special agricultural education in normal schools for the training of teachers in colleges, in schools, and in primary schools; instruction by consulting or visiting professors; practical instruction.

American Book Company, New York City.
School publications and text books.

Dabney, Charles W., University of Tennessee, Knoxville, Tennessee.—Monograph on agricultural education.

Department of Education, U. S. Commission to Paris.
Collective exhibit of schools of agriculture and experiment stations.

Lyon, Prof. T. Littleton, University of Nebraska, Lincoln, Nebraska.—Photographs of laboratories.

CLASS 6.

SPECIAL INDUSTRIAL AND COMMERCIAL EDUCATION.

Albany Business College, Albany, New York.
Students' work, statistics, publications.

American Book Company, New York City.
School publications and text-books.

Board of Education, Boston, Mass.
Evening industrial drawing schools.

Bradley Polytechnic Institute, Peoria, Illinois.
Photographs of students' work and class-room.

Bureau of Education, U. S. A., Washington, D. C.
Charts, statistics, publications.

Bureau of Indian Affairs, U. S. A., Washington, D. C.
Collective exhibit of Indian education.

Carlisle Indian School, Carlisle, Pennsylvania.
Photographs, charts, statistics, pupils' work.

Colored Industrial Institute, Pine Bluff, Arkansas.
Literary work; map and free hand drawing. Herbarium.

Department of Education, U. S. Commission to Paris.
Nineteen monographs on education in the United States, edited by Dr. Nicholas Murray Butler.

Hailmann, William N., Dayton, Ohio.
Monograph on education of the Indian.

Haines Industrial Institute, Augusta, Georgia.
Sewing done by young colored girls.

Hampton Normal and Agricultural Institute, Hampton, Virginia.—Photographs, charts, statistics, pupils' work.

Heald's Business College, San Francisco, California.
Students' work.

Hirsch, Baron de, Agricultural and Industrial School,
Woodbine, New Jersey.—Pupils' work; photographs of buildings.

Howard University, Washington, D. C.
Charts and photographs illustrating methods of teaching among the colored people.

James, Edmund J., University of Chicago, Chicago.
Monograph on commercial education.

Lowry Institute, Mayesville, South Carolina.
Photographs, portfolios.

Metropolitan Business College, Chicago.
Students' work. Photographs.

New York Trade School, East 67th St., New York City.
Photographs, charts, statistics, pupils' work.

Packard's Business College, New York City, New York.
Students' work, statistics, publications.

Philadelphia Business College, Philadelphia, Pennsylvania.
Students' work, statistics, publications.

Rochester Commercial College, Rochester, New York.
Students' work, statistics, publications.

Roger Williams University, Nashville, Tennessee.
Photographs and catalogue.

Silver, Burdett & Company, New York.
School publications and text books.

Soule Commercial College and Literary Institute, New Orleans, Louisiana.—Students' work.

Spencerian Commercial School, 422 Superior St., Cleveland, Ohio.—Students' work.

Tuskegee Normal and Industrial Institute, Tuskegee, Alabama.—Exhibit of twenty-eight industries connected with the school.

University of Atlanta, Georgia.
Charts showing the development of people of color in the United States.

University, Fisk, Nashville, Tennessee.
Written work by colored students; photographs.

University of Nebraska, Lincoln, Nebraska.
Photographs of laboratories.

Washington, Booker T., Tuskegee Institute, Tuskegee, Alabama.—Monograph on education of the negro.

GROUP II.

WORKS OF ART.

JAMES H. CAULDWELL, DIRECTOR.

CLASS 7.

PAINTINGS, CARTOONS, ILLUSTRATIONS.

Abbey, Edwin Austin, born at Philadelphia, Pennsylvania.
Pupil of Pennsylvania Academy of Fine Arts. Paris, 1879, first class medal; Chicago, 1893, medal. Chevalier of the Legion of Honor. Fairford, Gloucestershire, England.
1 — Hamlet.
2 — The Deserted Village; — illustration.
3 — Daffodil; — illustration.
4 — The Good-Natured Man; — illustration.

Abbot, Katherine G., born at Zanesville, Ohio.
Pupil of H. Siddons Mowbray, Wm. M. Chase, Merson, Geoffroy and Delance. Paris, France.
5 — Anxiety.

Alexander, John W., born at Pittsburg, Pennsylvania.
Pupil of Royal Academy, Munich, and Frank Duveneck. Paris.
6 — The Mother.
7 — Portrait of Rodin.
8 — Autumn.

Allen, Thomas, Boston, Massachusetts.
9 — On Grassmere Meadows.

Anderson, A. A., New York.
10 — Hon. Elihu Root.

Baer, William J., born at Cincinnati, Ohio.
Pupil of Munich Royal Academy. New York.
11 — Mrs. Wm. M. C.; — miniature.
12 — Friends; — miniature.

13 — Sara; — miniature.
14 — The Golden Hour; — miniature.
15 —Lady in Blue and Pink; — miniature.
16 — My First Born; — miniature.

Baker, Martha S., born at Evansville, Indiana.
Pupil of Art Institute, Chicago. Chicago.
17 — Miss Ethel Coe; — miniature.
18 — Ideal Head; — miniature.

Barlow, J. Noble, born at Manchester, England.
Pupil of Constant, Lefebvre and Delance. Paris, 1899, medal, third class. Providence, Rhode Island and Cornwall, England.
19 — One Summer Night.

Baxter, Martha Wheeler, born in Vermont.
Pupil of Mowbray, Kenyon Cox, Carroll Beckwith, F. Vincent, Du Mond. Paris and Windsor, Vermont.
20 — Portrait of Miss T.; — miniature.

Beaux, Cecilia, born at Philadelphia, Pennsylvania.
Pupil of Wm. Sartain, the Julien Academy, Chas. Lazar. Philadelphia, Pennsylvania.
21 — Mother and Daughter.
22 — Mother and Son.
23 — Portrait of Miss Fisher.

Beckington, Alice, born at St. Charles, Missouri.
Pupil of Lefebvre, Constant and Lazar. Scituate, Massachusetts.
24 —Portrait; — miniature.
25 — Helen; — miniature.

Beckwith, J. Carroll, born at Hannibal, Missouri.
Pupil of Carolus Duran. Honorable mention, Paris, 1887; Paris, 1889, Exp'n, bronze medal. New York.
26 — Portrait of Mrs. Beckwith.
27 — The Glance; — illustration.

Benson, Frank W., born at Salem, Massachusetts.
Pupil of Boulanger and Lefebvre. Chicago, 1893, medal. Salem, Massachusetts.
28 — Children in the Woods.
29 — The Sisters.
30 — Decorative figure.

Bisbing, H. S., born at Philadelphia, Pennsylvania.
Pupil of J. H. L. de Haas and F. de Vuillefroy. Paris.
31 — The Meadow.
32 — Cattle.

Blakelock, Ralph A., born at New York. New York.
33 — Landscape.

Blum, Robert, born at Cincinnati, Ohio.
Pupil of MacMicken School of Design and Academy of Fine Arts, Philadelphia. Chicago, 1893, medal. New York.
34 — "The Ameya."
35 — The Flower Market at Tokio.

Bogert, George H., born at New York.
Pupil of Puvis de Chavanne and Aimé Moreau. New York.
36 — Sea and Rain.

Bohm, Max, born at Cleveland, Ohio.
Pupil of Jean Paul Laurens and Benjamin Constant. Gold medal, 1898. Etaples, France.
37 — On the Sea.

Boskerck, Robert W. van, New York.
38 — Landscape.

Brekenridge, Hugh H., born at Leesburg, Virginia.
Pupil of Bouguereau, Farrier and Doucet. Philadelphia, Pennsylvania.
39 — Lantern Glow; — pastel.

Bridgman, F. A., born at Tuskegee, Alabama.
Pupil of Gérôme. Paris, 1877, medal; 1878, Exp'n, medal; 1899, Exp'n, medal. Chevalier of the Legion of Honor. Paris.
40 — Pharo.
41 — The Arab with a Horse.

Brown, J. G., born at Durham, England.
Pupil of Robert Scott Lander, Wm. B. Scott and Thomas Cummings. Paris, 1889, Exp'n, honorable mention. New York.
42 — Heels Over Head.

Browne, Charles Francis, born in Massachusetts.
Pupil of Boston Art Museum, Philadelphia Academy of Fine Arts, Gérôme. Chicago.
43 — Reflections.

Brush, George de Forrest, born in Tennessee.
Pupil of Gérôme. Chicago, 1893, medal. New York.
44 — Mother and Child.
45 — Mother and Child.
46 — The Artist.

Bunce, W. Gedney, New York.
47 — Venice.

Burbank, E. A., born at Harvard, Illinois.
Pupil of Emil Carlsen, Felix Regimy, J. F. Goodkins, Paul Navin and Frederick Fehr. Chicago.
48 — Thi-ich-na-pa; — Navajo.

Butler, Howard Russell. Chicago, 1893, Medal. New York.
49 — Clearing; — marine.

Camp, Joseph De, born at Cincinnati, Ohio.
Pupil of Frank Duveneck. Boston, Massachusetts.
50 — Woman Drying Her Hair.

Carl, Kate, born in Louisiana. Neuilly-sur-Seine, France.
51 — The Mirror.

Carleton, Clifford, New York.
52 — The Letter.

Champney, Marie, New York.
54 — Portrait of Mrs. H., as Geisha Girl; — miniature.

Chapman, Carlton T., born at New London, Ohio.
Pupil of Art Students' League, N. Y., and Julien Academy, Paris. Chicago, 1893, medal. New York.
55 — Out of Reckoning; a Narrow Escape; — illustration.
56 — Constitution and Guerriere.
57 — The Oregon in Action.

Chase, William M., born at Franklin.
Pupil of Wagner and Piloty. Philadelphia, 1876, medal; Paris, 1881, honorable mention; Paris, 1889, silver medal. New York.
58 — Woman with a White Shawl.
59 — Landscape.
60 — The Big Brass Bowl.

Christy, Howard Chandler, born in Ohio.
Pupil of Wm. M. Chase. New York.
61 — Instead, she buried her face in its folds; — illustration.

Church, F. S., born at Grand Rapids, Michigan.
Pupil of Walter Shirlaw. New York.
62 — The Sorceress.

Clark, Walter Appleton, born at Worcester, Massachusetts.
Pupil of H. Siddons Mowbray and Wm. M. Chase. New York.
63 — Perfectly content if she looked up now and then; — illustration.
64 — Naturally, he was surprised and considerably annoyed; — illustration.
65 — Francisca kept the house; — illustration.
66 — It was to be an affair of boats; — illustration.

Clark, Walter, born at Brooklyn, New York.
Pupil of Wilmarth and Art Students' League, N. Y. New York.
67 — A New England Village.

Clinedinst, B. West, New York.
68 — Marooned; — illustration.

Coffin, William A., born at Allegheny, Pennsylvania.
Pupil of Leon Bonnat. Paris, Exp'n, 1899, bronze medal. New York.
69 — Sunrise.

Coman, Charlotte B., born at Waterville, New Hampshire.
Pupil of James R. Prevoort, Harry Thompson, and Emile Vernier. New York.
70 — A Winter Morning; — aquarelle.
71 — A Hill of Hazel Bushes; — aquarelle.

Cooper, Emma Lampert, born at Nunda, New York.
Pupil of Harry Thompson, J. Kever and Wm. M. Chase. Chicago, 1893, medal. London, England.
72 — The Breadwinners.

Couse, E. Irving, born at Sigman, Michigan.
Pupil of Bougeareau, Fleury. New York.
73 — Along the Quai.

Cowles, Maud Alice, born at Farmington, Connecticut.
Pupil of Robert Brandegee and Prof. Niemeyer. Farmington, Connecticut.
74 — The meeting on the bridge; — illustration.

Cox, Kenyon, born at Warren, Ohio.
Pupil of Jérôme and Carolus Duran. Chicago, 1893, medal. New York.
75 — The Pursuit of the Ideal.

Cox, Mrs. Louise, born at San Francisco, California.
Pupil of National Academy of Design and Art Students' League. New York. New York.
76 — Leonard.

Crane, Bruce, born at New York.
Pupil of A. H. Wyant. New York.
77 — Signs of the Spring.

Curran, Chas. C., born at Hartford, Kentucky.
Pupil of Benjamin Constant and L. Doucet. Paris, 1890, honorable mention; Chicago, 1893, medal. New York.
78 — The Dew.
79 — The Peris.

Curtis, Constance, born at Washington, D. C.
Pupil of Wm. M. Chase and Robert Reid. New York.
80 — Joan; — aquarelle.

Dannat, William T., Paris and New York.
81 — Portrait of Otero.
82 — Portrait of the Duchess of Mecklenburg.
83 — Portrait of Miss C.

Darling, W. M., born at Sandusky, Ohio.
Pupil of Jean Paul Laurens and Benjamin Constant. Laren, Holland.
84 — Helping the Mother.

Davis, Charles H., born at Amesbury, Massachusetts.
Pupil of Otto Grundmann, Boulanger and Jules Lefebvre. Paris, 1889, honorable mention; 1889, Exp'n, silver medal; Chicago, 1893, medal. Boston.
85 — Summer Evening.
86 — Clouds Over Water.

De Wentworth, Cecilia.
Pupil of Cabanel. New York and Paris.
53 — Portrait of Cardinal Ferrara.

Dearth, Henry Golden, New York.
87 — Autumn.

Dessar, Louis Paul, born at Indianapolis, Indiana.
Pupil of W. A. Bouguereau and Robert Fleury. Paris, 1891, gold medal; Chicago, 1893, medal. New York.
88 — Sheep in the Dunes.
89 — Evening in Picardie.

Dickson, M. E., born at St. Louis, Missouri.
Pupil of Tony Robert, Fleury and Lefebvre. Paris, 1896, honorable mention. Paris.
90 — Fancy Head.

Donoho, Roger G., East Hampton, New York.
91 — Moonlight in Egypt Lane.

Drake, Will H., New York.
92 — The tiger's roar filled the cave; — illustration.

Eakins, Thomas, born at Covington, Kentucky.
Pupil of Gérôme, Bonnat and Dumont. Chicago, 1893, medal. Philadelphia, Pennsylvania.
93 — The 'Cello Player.
94 — Salutat.

Eaton, Charles Warren, born at Albany, New York.
Pupil of National Academy of Design and Art Students' League, New York.
96 — The Marsh in Winter; — pastel.
97 — Spirit of the Twilight; — aquarelle.
98 — River at Evening.

Eichelburger, R. H., New York.
99 — The Wave.

Ellis, Harvey, Rochester, New York.
100 — Silhouettes; — aquarelle.

Emmet, Lydia Field, New York.
101 — Garden Days.

Enneking, J. J., Boston, Massachusetts.
102 — Twilight.

Fisher, Mark, born at Boston, Massachusetts. Weddington, Newport, Essex, England.
103 — The Swineherd.

Foss, Miss Harriot C., New York.
104 — Pink Phlox; — pastel.

Foster, Ben, North Anson, Maine.
Pupil of Abbott Thayer. Luc Olivier Merson and Aimé Morot. Chicago, 1893, medal. New York.
105 — Lulled by a Murmuring Stream.

Franzen, August, born at Norrkoping, Sweden.
Pupil of Dagnan and Bouveret. New York.
106 — Charity.
107 — The House Builders.

Fromuth, Charles H., born at Philadelphia, Pennsylvania.
Pupil of Thomas Eakins. Concarneau, France.
108 —A Dock Harmony.
109 — Dismantled Boats.

Frost, A. B., Convent Station, New Jersey.
110 — What happened; — illustration.
111 — Somebody blundered; — illustration.

Fuller, Lucia Fairchild, Windsor, Vermont.
112 — Girl Drying Her Foot; — miniature.
113 — Girl with Hand Glass; — miniature.
114 — Portrait of a Child; — miniature.

Gallagher, Sears, born at Boston, Massachusetts.
Pupil of Thomas Juglaris, Jean Paul Laurens and Benjamin Constant. Boston, Massachusetts.
115 — Foggy Weather; — aquarelle.

Gallison, Henry H., born at Boston, Massachusetts.
Pupil of Bonnefoy. Boston, Massachusetts.
116 — A Gray Day.

Garnsey, E. E., New York.
117 — Decorative painting of lunettes and ceiling, rotunda National Pavilion.

Gauley, Robert David, born at Ballylag, Ireland.
Pupil of Denman Ross. New York.
118 — Polly.

Gay, Walter, born at Hingham, Massachusetts.
Pupil of Léon Bonnat. Third-class gold medal, Paris, 1898; hors concours, Paris Exp'n, 1889. Chevalier of the Legion of Honor. Paris.
119 — Maternity.
120 — The Weavers.

Gibson, Charles Dana, born at Roxbury, Massachusetts.
Pupil of Augustus St. Gaudens and Julien Academy. New York.
121 — Réjane; — illustration.
122 — No respecter of a widow's grief; — illustration.

Gifford, R. Swain, born at Island of Nanshon, Massachusetts.
Pupil of Albert Van Beest. New York.
123 — Headwaters of Westport River.

Gihon, Albert Dakin, born at Portsmouth, New Hampshire.
Pupil of Thomas Eakins, Constant, J. P. Laurens, Gérôme, Aman Jean, Georges Moteley. Paris.
124 — Old Mill; — Picardy.

Glackens, William, New York.
125 — In town it's different; — illustration.
126 — She wheeled about and stamped her foot. "Silence pigs," she screamed; — illustration.

Grothjean, Mrs. Fanny, born at Hamburg, Germany.
Pupil of Courtois Girardot, Paul J. Blanc, Pierre Fritel and A. G. Delécluse. New York.
127 — The August Moon.
128 — The New Moon.

Guerin, Jules, born at St. Louis, Missouri.
Pupil of Benjamin Constant and Jean Paul Laurens. New York.
129 — University Heights, Harlem River; — illustration.

Guy, J. Seymour, born at Greenwich, England.
Pupil of Ambroise Jérôme and Buttersworth. New York.
130 — Rest.
131 — Preparing for To-morrow.

Halmick, H., New York.
132 — On the floor lay Bemin Cozart; — illustration.

Hambridge, Jay, Staten Island, New York.
133 — Studies from Life.
134 — Trouble Ahead; — illustration.

Harrison, Alexander, born at Philadelphia, Pennsylvania.
Pupil of Gérôme and Lepage. First class medal; Paris Exp'n, 1889. Chevalier of the Legion of Honor. Paris.
135 — Twilight; — marine.
136 — Mysteries of the Night; — marine.
137 — Fires in the Sun; — landscape.

Harrison, Birge, born at Philadelphia, Pennsylvania.
Pupil of Carolus Duran and Cabanel. Paris Exp'n, 1889, silver medal; Chicago, 1893, medal; hors concours, salon. Plymouth, Massachusetts.
138 — Morning off Santa Barbara.

Hassam, Childe, born at Boston, Massachusetts.
Pupil of Boulanger and Lefebvre. Paris, 1889, Exp'n, bronze medal; Chicago, 1893, medal. New York.
139 — Snowy Day in Fifth Avenue.

Haydon, Charles H., born at Plymouth, Massachusetts.
Pupil of Boulanger, Collin and Lefebvre. Paris, 1889, Exp'n, honorable mention. Belmont, Massachusetts.
140 — A Connecticut Hillside.

Herter, Albert, born at New York.
Pupil of F. Cormon and Jean Paul Laurens. Paris, 1890, honorable mention. New York.
141 — Sorrow; — aquarelle.

Hills, Mrs. Laura C., born at Newburyport, Massachusetts.
Pupil of Helen M. Knowlton, Cowles Art School and the Art Students' League, New York. Boston, Massachusetts.
142 —Laura; — miniature.
143 — Dorothy; — miniature.
144 — Portrait of Beatrice Heaford; — miniature.
145 — Portrait of Miss T.; — miniature.
146 — Study in Pink; — miniature.

Hitchcock, George, born at Providence, Rhode Island.
Pupil of Boulanger and Lefebvre. Paris, 1889, gold medal; Chicago, 1893, medal. Egmond Half, Holland, and Providence, Rhode Island.
147 — Magnificat.
148 — Vanquished.

Hitchcock, Lucius W., born at West Williamsfield, Ohio.
Pupil of Jules Lefebvre, Benjamin Constant and Jean Paul Laurens. Buffalo, New York.
149 — Ready; look pleasant; — illustration.
150 — The house was in a roaring humor; — illustration.

Holman, Frank, born at Attleborough, Massachusetts.
Pupil of Carolus Duran and the Ecole des Beaux Arts. Paris.
151 — Portrait of My Mother.

Homer, Winslow, born at Boston, Massachusetts.
Pupil of Frederick Rendel. Scarboro, Maine.
152 — The Fox Hunt.
153— The Maine Coast.
154 — All's Well.
155 — Summer Night.

Houston, Caroline A., born at Brooklyn, New York.
Pupil of Frank Dumond, Raphael Collin and Eugene Trasset. Paris.
156 — Portrait of Miss C.; — miniature.
157 — Portrait of Miss M. J. C.; — miniature.

Houston, Frances C., New York.
158 — Portrait.

Hyde, W. H., New York.
162 — Portrait.

Inness, George (Deceased), born at Newburg, New York.
Pupil of Regis Gignoux. Paris, 1889, Exp'n, bronze medal.
163 — Sunny Autumn Day.
164 — The Clouded Sun.
165 — The Valley on a Gloomy Day.
166 — The Mill Pond.

Johnson, Eastman, born at Lorel, Maine.
Pupil of Lentye. Paris, 1889, Exp'n, medal. New York.
167 — Prisoner of State.

Jones, H. Bolton.
168 — November.

Josephi, Isaac A., born at New York.
Pupil of Art Students' League, New York, and Leon Bonnat. New York.
169 — Portrait; — miniature.
170 — Portrait; — miniature.
171 — Portrait; — miniature.

Keelin, C. S., born at Cincinnati, Ohio.
Pupil of Cincinnati Art School and Art Students' League, New York. Cincinnati, Ohio.
172 — Melting Snows; — pastel.

Keller, Arthur I., born at New York.
Pupil of Prof. Wilmarth and Prof. Loefftz. New York.
173 — Allie Connan's first and last duel; — illustration.
174 — Col. Washington's wedding reception; — illustration.

Kendall, Margaret, New York.
175 — Pastures and Pudding Stones.

Kendall, Sergeant, born at Spuyten-Duyvel, New York.
Pupil of Thomas Eakins, Oliver Merson. Paris, 1891, honorable mention; Chicago, 1893, medal. New York.
176 — "St. Ives, Pray for Me."
177 — Cloud Shadows.

Knight, Louis Aston, born at Paris.
Pupil of Lefebvre, Tony Robert Fleury and Ridgway Knight. Poissy, France, and Philadelphia.
178 — The Riverside Path; — aquarelle.

Knight, Ridgway, born at Philadelphia, Pennsylvania.
Pupil of Glayre and Meissonier. Paris, 1884, honorable mention; 1888, third-class gold medal; 1889, Exp'n, silver medal. Chevalier of the Legion of Honor; Chicago, 1893, medal. Poissy, France.
179 — A July Morning.

Koopman, Augustus, born at Charlotte, North Carolina.
Pupil of Bouguereau and Fleury. Paris and Philadelphia.
180 — The Two Forces.

Kost, Frederick W., born at New York.
Pupil of National Academy. New York.
181. Old Vanderbilt Dock, New Dorp.

Kronberg, Louis, born in United States.
Pupil of Jean Paul Laurens, Benjamin Constant and Raphael Collin. Boston, Massachusetts.
182 — Study from the Nude; — pastel.

La Farge, John, born at New York.
Chevalier of the Legion of Honor. New York.
183 — Girls Making Kava.
184 — Mt. Tohivea, Society Islands.

Lathrop, Francis, born in Hawaiian Islands.
Pupil of Ford Madox, Brown and Sir Edward Jones. Philadelphia, 1889, gold and silver medal. New York.
185 — Portrait of the Artist.

Lathrop, W. L., born at Warren, Illinois. New York.
186 — A Gray Day.
187 — Landscape.

Lee, Homer, born at New York. New York.
188 — The Building of a Sky-Scraper.

Lee-Robbins, Lucy, born at New York.
Pupil of Carolus Duran and Henner. Paris, 1887, honorable mention. Paris and New York.
189 — A Study in Blue.

Lewis, Arthur, born at Mobile, Alabama.
Pupil of George Bridgman and Gérôme. Paris and Mobile, Alabama.
190 — Portrait of Michel Robinson.

Locke, Caroline T., New York.
191 — Purple Rhododendrons.

Lockwood, Wilton, born at Boston, Massachusetts. Boston, Massachusetts.
192 — The Violinist.

Low, Will H., born at Albany, New York.
Pupil of Gérôme and Carolus Duran. Paris, 1889, Exp'n, medal; Chicago, 1893, medal. Bronxville, New York.
193 — At the Spring.

MacCarter, Henry, born at Morristown, Pennsylvania.
Pupil of National Academy, New York, and Julien Academy, Paris. New York.
194 — The Legends of Mont Saint Michel; — illustration.

MacChesney, Clara, born at San Francisco, California.
Pupil of William Mowbray, Coutois and Girardot. Chicago, 1893, two medals. New York.
195 — Pomegranates; — aquarelle.
196 — The Old Blind Fiddler; — aquarelle.

MacEwen, Walter, born at Chicago.
Pupil of Cormon, Tony Robert Fleury. Paris, 1886, honorable mention; 1889, Exp'n, silver medal; Chicago, 1893, medal. Chevalier of the Legion of Honor. Paris and Chicago.
197 — Portrait.
198 — Sunday in Holland.
199 — Pieter Van Wint.

MacIlhenny, C. M., New York.
200 — November.

MacKubin, Florence, born at Florence, Italy.
Pupil of Louis Deschamps, Julius Rohlshoven and Prof. Herterrich. Baltimore, Maryland.
201 — Portrait of Mrs. Rockwood Hoar; — miniature.

MacMonnies, Mrs. Mary F., born at New Haven, Connecticut.
Pupil of Jules Lefebvre, W. A. Bouguereau and Carolus Duran. Chicago, 1893, medal. Paris, France, and New Haven, Connecticut.
202 — Lilies and Roses.

Marsh, F. D., born at Chicago.
Pupil of La Farge and Beckwith. Paris and Chicago.
203 — Portrait.

Martin, Homer, born at Albany, New York.
Pupil of William Hart, deceased.
204 — Newport Neck.
205 — The Adirondacks.
206 — Westchester Hills.

Maurer, A. H., born at New York.
Pupil of Edgar M. Ward. Paris and New York.
207 — Portrait.

Maynard, George Willoughby, born at Washington, D. C.
Pupil of Academy of Fine Arts, Belgium. Chicago, 1893, medal. New York.
208 — In Strange Seas.
209 — Sport.

Maynard, Guy, Paris and New York.
210 — Portrait.

Meakin, L. H., born in England.
Pupil of Prof. Raupp, Cysis and Loeffts. Cincinnati, Ohio.
211 — Eden Park Reservoir.

Melchers, Gari, born at Detroit, Michigan.
Pupil of Lefebvre and Boulanger. Chevalier of the Legion of Honor. Paris, 1886, honorable mention; 1888, medal, third class; 1889, grand prix. Paris and Detroit, Michigan.
212 — The Fencing Master.
213 — Portrait.
214 — The Sisters.

Metcalf, Willard L., New York.
215 — Summer Twilight.

Millet, Francis D., born at Mattapoisett, Massachusetts.
Pupil of Van Lerins, Royal Academy of Fine Arts, Antwerp. Paris, 1889, Exp'n, second class medal; Chicago, 1892, medal. Broadway, Worcester, England.
216 — The Expansionist.
217 — Unconverted.

Minor, Robert C., born at New York.
Pupil of Van Luppen, Diez and Boulanger. New York.
218 — Moonlight.

Moeller, Louis, born at New York.
Pupil of Prof Dietz and Duveneck. New York.
219 — Bluffing.

Muhrman, Henry H., London, England, and New York.
220 — Trees and Pond.
221 — Broad Stairs.

Murphy, J. Francis, born at Oswego, New York. Chicago, 1893, medal. New York.
222 — Landscape.
223 — Under Gray Skies; — aquarelle.

Needham, Charles Austin, born at Buffalo, New York.
Pupil of Augustus Will and Art Students' League of New York. New York.
224 — Park Snows.
225 — A River Bank; — aquarelle.

Nelson, M., Paris and New York.
226 — Portrait of a Little Boy; — miniature.

Nettleton, Walter, New York.
227 — Early Snowfall.

Newman, R. L., born at Richmond, Virginia.
Pupil of Thomas Conture.
228 — Christ Stilling the Tempest.

Newman, Mrs. W. B., born in Tennessee.
Pupil of F. S. Noble, Benjamin Constant and Jean Paul Laurens. Paris.
229 — Reverie (moonlight effect).

Nicholls, Rhoda Holmes, born at Coventry, England.
Pupil of Bloomsbury School of Art of London. Chicago, 1893, medal. New York.
230 — Search the Scriptures; — aquarelle.

Norton, William E., London, England, and Boston, Massachusetts.
231 — Normandy Fish Weir.

Nourse, Elizabeth, born at Cincinnati, Ohio.
Pupil of Boulanger, Lefebvre, Carolus Duran and Henner. Chicago, 1893, medal. Paris.
232 — In the Church at Volendam, Holland.

Ochtman, Leonard, born at Bonnemaire, Holland. Chicago, 1893, medal. Mianus, Connecticut.
233 — Winter Morning.
234 — Autumn Twilight.

Palmer, Walter L., born at Albany, New York.
Pupil of F. E. Church, Carolus Duran. Chicago, 1893, medal. Albany, New York.
235 — The Senator's Birthplace.
236 — San Marco, Venice.

Pape, Eric, New York.
237 — Midnight in a Two-Cent Lodging House; — illustration.

Parrish, Clara W., born at Selma, Alabama.
Pupil of Art Students' League, New York. New York.
238 — Portrait; — pastel.

Parrish, Maxfield, Windsor, Vermont.
239 — The Sandman.

Pearce, Charles Sprague, born at Boston, Massachusetts.
Pupil of Leon Bonnat. Chevalier of the Legion of Honor. Paris, 1881, honorable mention; 1883, gold medal, third class; hors concours, salon. Auvers-sur-Oise, France.
240 — The Shawl.

Pennell, Joseph, born at Philadelphia, Pennsylvania.
Pupil of Pennsylvania Academy of Fine Arts. Awards at Paris, Philadelphia and London. London, England, and Philadelphia.
241 — Cathedrals of France; — drawing.

Perrine, Van Dearing, born in Kansas.
Pupil of Cooper Union, New York, National Academy of Design, William M. Chase. New York.
242 — The Flower Market in Winter.

Picknell, W. L., born at Boston, Massachusetts.
Pupil of Gérôme, George Inness. Chicago, 1893, medal; Paris, 1895, gold medal. Deceased.
243 — Morning on the Loing.

Platt, Charles A., born at New York.
Pupil of Boulanger and Lefebvre. New York.
244 — Winter.
245 — Clouds.

Poore, H. R., born at Newark, New Jersey.
Pupil of Peter Moran, Pennsylvania Academy of Fine Arts, National Academy, New York, Loumeneis and Bouguereau. Orange, New Jersey.
246 — The Wounded Hound.

Porter, Benjamin C., born at Melrose, Massachusetts. New York.
247 — Portrait of Mrs. P.
248 — Portrait of Master P.

Proctor, P. A.
Pupil of Puech and Anglebert. Paris and New York.
249 — A Puma.

Pyle, Howard, Wilmington, Delaware.
250 — The Buccaneers' Christmas; — illustration.

Ranger, Henry W., New York.
251 — Becky Cole's Hill.
252 — Brooklyn Bridge.

Redfield, Edward W., born at Bridgeville, Delaware.
Pupil of Bouguereau and Fleury. Paris and Philadelphia, Pennsylvania.
253 — The Bridge, Joinville.
254 — Road to Edge of Hill.

Rehn, F. K. M., born at Philadelphia, Pennsylvania.
Pupil of Pennsylvania Academy of Fine Arts. New York.
255 — A Northwester in Gloucester Harbor.

Reid, Rebert, born at Stockbridge, Massachusetts.
Pupil of Boulanger and Lefebvre. Chicago, 1893, medal. New York.
256 — Azalea.
257 — Decorative painting in the hemicycle of the porch of the United States Pavilion.

Reinhart, C. S., born at Pittsburg, Pennsylvania.
Paris, 1889, Exp'n, gold and silver medal; Chicago, 1893, two medals. Deceased.
258 — High Tide at Gettysburg; — illustration.

Reynolds, Mrs. Virginia, born at Chicago.
Pupil of Prof. Herterrich and Carl Marr, Lazar School. Chicago.
259 — Portrait; — miniature.
260 — Portrait; — miniature.
261 — Portrait; — miniature.

Richards, F. T., born at Philadelphia, Pennsylvania.
Pupil of Thomas Eakins, Edmund B. Bensell and Art Students' League, New York. New York.
262 — Doctor's Mistakes; — illustration.

Robinson, Theodore, born at Irasburg, Vermont.
Pupil of Carolus Duran and Gérôme. Deceased.
263 — In the Sun.

264 — The Canal.
265 — A Sardine Booth; — illustration.

Robinson, Will S., New York.
266 — Early Evening.

Rogers, W. A., New York.
267 — Faro at El Paso; — illustration.

Rolshoven, Julius, St. Louis, Missouri.
268 — Great-Grandmother's Finery.
269 — Portrait.

Sargent, John S., born at Florence, Italy.
Paris, 1881, hors concours; 1889, medal. Chevalier of the Legion of Honor. London, England, and Boston, Massachusetts.
270 — Portrait of Miss Thomas.
271 — Portrait of Mrs. Wertheimer.
272 — Portrait of Mrs. Meyer.

Saxon, John G., New York.
273 — Sunset in the Dunes.

Schofield, J. Elmer, Ogontz, Pennsylvania.
274 — January Evening.

Schreyvogel, Charles, New York.
275 — My Bunkie.

Scott, Mrs. E. H., born at Spring Water, New York.
Pupil of National Academy of Design and Art Students' League, New York. New York.
276 — Yellow Roses; — aquarelle.

Sears, Mrs. Sarah C., born at Cambridge, Massachusetts.
Pupil of Cowles Art School and Museum of Fine Arts. Chicago, 1893, medal. Boston, Massachusetts.
277 — Portrait of Lady in White; — pastel.
278 — Romola.

Sharp, J. H., born at Bridgeport, Ohio.
Pupil of Chas. Verlat, Carl Marr, Jean Paul Laurens and Benjamin Constant. Cincinnati, Ohio.
279 — Head of Cheyenne.
280 — Head of an American Indian; — illustration.

Sherwood, Rosina Emmet, born at New York.
Pupil of Wm. M. Chase. Paris, 1889, Exp'n, silver medal; Chicago, 1893, medal. New York.
281 — Portrait Study; — aquarelle.
282 — Portraits of Children; — illustration.

Smedley, William S., born in Pennsylvania. Bronxville, New York.
283 — Challenged; — illustration.
284 — The Stern Parent; — illustration.
285 — In a gallery; — illustration.
286 — Old People in a Park; — illustration.

Snell, Henry B., New York.
287 — Twilight at Sea; — aquarellè.

Spicer-Simson, Margaret, born at Washington, D. C.
Pupil of Krauss, Boutet de Monvel and Carrière. Paris and Washington, D. C.
288 — Portrait of Miss Agnes Money; — miniature.
289 — Portrait of Miss Money Coutts; — miniature.

Steele, Theodore C., born in Indiana.
Pupil of Prof. Bentzur and Loefftz. Indianapolis, Indiana.
29 — The Bloom of the Grape.

Stephens, Alice Barber, born in New Jersey.
Pupil of Pennsylvania Academy of Fine Arts and Julien Academy. Philadelphia, Pennsylvania.
291 — Pierre was mother as well as father; — illustration.

Sterner, Albert E., born at London, England.
Pupil of Boulanger and Lafebvre. Paris, 1891, honorable mention. Nutley, New Jersey.
292 — Portrait of a Lady; — aquarelle.
293 — Mother and Child; — aquarelle.
294 — Little Nell and Schoolmaster; — illustration.
295 — The Bride; — illustration.

Stewart, Jules, born at Philadelphia, Pennsylvania.
Pupil of Gérôme. Paris, 1885, honorable mention; 1890, medal, third class. Chevalier of the Legion of Honor. Chicago, 1893, hors concours, Paris. Philadelphia.
296 — Nymphs of Nysa.
297 — Laughing Woman.

Story, Julian, born at Oxford, England.
Pupil of Frank Duveneck, Boulanger and Lefebvre. Paris, 1889. Exp'n, medal, third class. Paris and Boston, Massachusetts.
298 — Columbine.
299 — Portrait.

Strafer, Harriette R., born at Covington, Kentucky.
Pupil Academy of Fine Arts, Cincinnati, Ohio; Mrs MacMonnies, Gustave Dourtois and Colin. New York.
300 — Portrait of Mrs. S.; — miniature.

Taber, E. M., New York.
301 — Mount Mansfield in Winter.

Tanner, H. O., born at Pittsburg, Pennsylvania.
Pupil of Thomas Eakins, Laurens, Constant. Paris, 1896, honorable mention; 1897, third class medal. Paris and Pittsburg, Pennsylvania.
302 — Daniel in the Lions' Den.

Tarbell, Edmund C., born at West Groton, Massachusetts.
Pupil of Boulanger and Lefebvre. Chicago, 1893, medal. Boston, Massachusetts.
303 — The Venetian Blind.
304 — Across the Room.
305 — The Bath.

Taylor, Mrs. Emily Drayton, Philadelphia, Pennsylvania.
306 — Dr. S. Weir Mitchell; — miniature.
307 — Mrs. Chas. M. Lea; — miniature.

Taylor, C. J., New York.
308 — The Chelsea Pensioner; — illustration.

Teasdel, Mary, born at Salt Lake City, Utah.
Pupil of F. Brush, R. Collin and L. R. Garrido. Paris and Salt Lake City, Utah.
309 — Maxime; — miniature.

Thayer, Abbott, born at Boston, Massachusetts.
Pupil of Wilmarth and Henry D. Morse; Lehman and Gérôme. Paris, 1889, Exp'n, medal, second class. Dublin, New Hampshire and Boston.
310 — Brother and Sister.
311 — Virgin Enthroned.
312 — Young Woman.

Thayer, Theodora W., Boston, Massachusetts.
313 — Portrait; — miniature.
314 — Portrait; — miniature.
315 — Portrait; — miniature.

Theriat, Charles J., born at New York.
Pupil of Lefebvre and Boulanger. Paris, 1899, Exp'n, honorable mention; 1896, honorable mention. Paris and New York.
316 — Portrait.

Thomas, S. Seymour, born at San Augustine, Texas.
Pupil of Lefebvre, Constant and Alexander Harrison. Paris, 1895, honorable mention. Paris and San Augustine, Texas.
317 — Lady in Brown; — pastel.

Vail, Eugene, born at Saint Servan, France.
Pupil of Caban, Dagnan, Bouveret and Collin. Paris, honorable mention; 1889, Exp'n, first class gold medal; Chevalier of the Legion of Honor. Paris and New York.
318 — Evening in Brittany.
319 — Voice of the Sea.
320 — Morning in October.

Vedder, Simon H., born in Montgomery County, New York.
Pupil of Bouguereau, T. Robert Fleury, Gérôme and Glayse. Paris, honorable mention. London, England, and New York.
321 — Portrait.

Vinton, Frederick P., born at Bangor, Maine.
Pupil of Wm. M. Hunt, Dr. Wm. Rimmer, Leon Bonnat and Jean Paul Laurens. Paris, 1890, honorable mention; Chicago, 1893, medal. Boston, Massachusetts.
322 — Portrait of Hon. A. W. Beard.

Vonnoh, Robert W., born at Hartford, Connecticut.
Pupil of Boulanger and Lefebvre. Paris, honorable mention; 1889, Exp'n, medal; Chicago, 1893, medal. Rockland Lake, New York.
323 — Portrait of Miss Mildred Blair.
324 — Little Louise.

Walden, Lionel, born at Norwich, Connecticut.
Pupil of Carolus Duran. Paris, honorable mention. Norwich, Connecticut.
325 — Fishing in the Bay.

Walker, Horatio.
Paris, 1889, third class medal; Chicago, 1893, medal. New York.
326 — Spring Plowing.

Wall, A. Bryan, born at Allegheny City, Pennsylvania.
Pupil of A. Wall. Allegheny City, Pennsylvania.
327 — Sheep.

Waters, Sadie, Paris and New York.
328 — The Virgin with Lilies; — miniature.

Weeks, E. Lord, born at Boston, Massachusetts.
Chevalier of the Legion of Honor; Paris, 1889, Exp'n, first class medal. Paris and Boston, Massachusetts.
329 — Indian Barber.
330 — The Awakening of Noureddin.

Weidner, Carl A., born at Hoboken, New Jersey.
Pupil of National Academy of Design and Art Students' League, New York. Paul Nanen. New York.
332 — Portrait of Victor Weidner; — miniature.

Weir, J. Alden, born at West Point, New York.
Pupil of Gérôme. Paris, 1889, Exp'n, silver medal. New York.
333 — The Ice Cutters.
334 — Portrait of a Young Girl in Gray.
335 — Noonday Rest.

Weir, John F., New Haven, Connecticut.
336 — Roses.

Weyden, Harry Van der, born at Boston, Massachusetts.
Pupil of Legros, Fred Brown and Jean Paul Laurens. Paris, 1891, third class medal. Montreuil-sur-Mer, France, and Boston.
337 — Calm.
338 — The Hillside.

Whistler, J. MacNeil, Paris and New York.
339 — Portrait; — gray and gold.
340 — Portrait; — pearl and silver.

Whittemore, William J., born at New York.
Pupil Art Students' League, New York; National Academy, Benjamin Constant and Lefebvre. Paris, 1899, Exp'n, silver medal. New York.
341 — Portrait in Green; — miniature.

Wiles, Irving R., born at Utica, New York.
Pupil of his father, Lefebvre and Carolus Duran. Paris, 1889, Exp'n, honorable mention. New York.
342 — Portraits.

Woodbury, Charles H., born at Lynn, Massachusetts.
Pupil of Boulanger and Lefebvre. Boston, Massachusetts.
343 — The Green Mill.
344 — A Rock in the Sea.

Woodbury, Marcia O., born at Lynn, Massachusetts.
Pupil of Julien Academy, Paris. Boston, Massachusetts.
345 — Mother and Daughter; — aquarelle.
346 — The Smoker; — aquarelle.

Wuerpel, Edmund H., born at St. Louis, Missouri.
Pupil of W. A. Bouguereau, Gabriel Ferrier, Edmund Aman-Jean. St. Louis, Missouri.
347 — Dreaming Waters.

Wyant, A. H., born in Ohio.
Pupil of Hans Gude. Paris, 1889, Exp'n, honorable mention. Deceased.
348 — Sunlit Vale.
349 — In the Adirondacks.

Yohn, F. C., New York.
350 — Lord Chief Justice; illustration.

Zogbaum, Rufus F., New Rochelle, New York.
351 — Hawkins at San Juan; illustration.
352 — Cutting the Cable Off Cienfuegos; illustration.

CLASS 8.

ENGRAVINGS AND LITHOGRAPHS.

Aikman, Walter M., born at New York.
Pupil of Frank French, J. G. Smithwick. Paris, 1889, Exp'n, medal; Chicago, 1893, medal. Brooklyn, New York.
1 — Landscape.
2 — Jade Screen.

Aitken, Peter, born at Dundas, Canada.
Pupil of Timothy Cole. Chicago, 1893, medal. Brooklyn, New York.
3 — Little Princess.
4 — Portrait after Gilbert Stuart.
5 — Madonna and Child.

Blaney, Henry B., born at Dedham, Massachusetts. Ipswich, Massachusetts.
6 — Chinese Bronze.
7 — Aquatint. (Still Life.)

Bernstrom, Victor, born at Stockholm, Sweden. Chicago, 1893, medal. New York.
8 — Shepherdess.
9 — River Scene.
10 — Inspiration.

Chadwick, Chas. Wesley, born at Red Hook, on the Hudson.
Pupil of Frank French, Frederick Juengling, William Miller. Brooklyn, New York.
11 — Napoleon, Lieutenant at Valence, Realier-Dumas.
12 — Arch of Steel, Jean Paul Laurens.
13 — La Rade de Toulon, Gaston Roullet.
14 — Death of Braddock, Howard Pyle.
15 — Riff Moor, Francis Day.

Cole, Timothy, born in London, England.
Pupil of Bond, Chandler. Chicago, 1893, medal. New York.
16 — Duke of Wellington, Sir Thos. Lawrence.
17 — Interior of Stable, Geo. Moreland.
18 — Mrs. Siddons, Sir Thos. Lawrence.
19 — Lady Derby, Sir Thos. Lawrence.
20 — William Pitt, John Hopper.
21 — Mrs. Siddons, Sir Thos. Gainsborough.
22 — The Parson's Daughter, Geo. Romney.
23 — Cicero's Villa, Richard Wilson.
24 — Lord Newton, Sir Henry Raeburn.
25 — William Hogarth, William Hogarth.

Comstock, Mrs. Anna B., born at Otto, New York.
Pupil of John P. Davis. Ithaca, New York.
26 — Plate of Moths.
27 — Plate of Butterflies.
28 — Plate of Moths.
29 — Plate of Butterflies.
30 — Dandelions.
31 — Tiger and Butterfly.
32 — Cherry Blossoms.

Davidson, Harry, born at Philadelphia, Pennsylvania.
Pupil of Frederick Faust. Paris, 1889, Exp'n, honorable mention. New York.
33 — Illustration for Serial Story, after L. Loeb.
34 — Illustration for Serial Story, after L. Loeb.
35 — Afternoon at a Ranch, after Mary Hallock Foote.
36 — Exercises at Wellesley College, after Metcalf.
37 — The Golden Gate, Chicago, after Castaigne.
38 — Canterbury Cathedral, after Jos. Pennell.

Davis, Samuel P., born at Schenectady, New York.
Pupil of A. V. S. Anthony, John P. Davis. Chicago, 1893, medal. New York.
39 — After Dinner Nap, after Delph.
40 — Cat, Kittens and Parrot, after Ronner.
41 — Cat, Kittens and Cage, after Ronner.
42 — Hound, after Bonheur.

Evans, John W., born at Brooklyn, New York.
Pupil of P. R. B. Pierson. Brooklyn, New York.
43 — Avignon, after Castaigne.
44 — The Artist, after Castaigne.
45 — The Ford, after Charlier.
46 — The Charge, after Charlier.

French, Frank, born at Loudon, New Hampshire.
Chicago, 1893, medal. New York.
47 — Beggar Girl, Louis Deschamps.

48 — Rose Leaves, Albert Moore.
49 — Shower in the Meadow, original.
50 — The New Year, original.
51 — Izaak Walton and the Milkmaid, after Boughton.

Heinemann, E., born at Brunswick, Germany.
Pupil of A. Closs, Brendeamour, Art Students' League, New York. Fort Wadsworth, Staten Island. New York.
52 — Edouard and Casimir Joseph Mortier.
53 — A Moment of Peril.

Hopson, William F., born at Watertown, Connecticut.
Pupil of Sandford, J. D. Feltes and August Wile. New Haven, Connecticut.
54 — Ex Libris, Engravings on Copper.

Johnson, Thomas, born at London, England.
Pupil of F. Williams. Chicago, 1893, medal. New York.
55 — Portrait of Washington, after Gilbert Stuart.
56 — Marshal Soult.
57 — Gen. Marmont.
58 — Sir Thomas Sloan.
59 — Chas. Palthazar, after Val.
60 — Gen. Joe Wheeler.
61 — Cromwell.
62 — Tennyson.

Jones, Alfred, born at Liverpool, England.
Pupil of National Academy of Design, New York. Yonkers, New York.
63 — Portrait of Geo. Washington.

King, F. S., born in Maine.
Pupil of John Orr. Paris, 1889, Exp'n, medal; Chicago, 1893, medal. Roseville, New Jersey.
64 — Paul Revere.
65 — Isaiah L. Thomas, Esq.
66 — Book Plate of the Printer's Devil.
67 — The Golden Galleon.

Kingsley, Elbridge, born at Cincinnati, Ohio.
Pupil of Cooper Union, New York. Paris, 1889, Exp'n, gold medal; Chicago, 1893, medal. Hadley, Massachusetts.
68 — Autumn Evening, after D. W. Tryon.
69 — Old Homestead, after J. Francis Murphy.
70 — Spring-time, after D. W. Tryon.
71 — Tragedy of Spring, original.
72 — New England Elms, original.

Kruell, Gustav, born at Duesseldorf.
Pupil of R. Brendamour. Paris, 1889, Exp'n, honorable mention; Chicago, 1893, medal. East Orange, New Jersey.
73 — Abraham Lincoln.
74 — Gen. William T. Sherman.
75 — Gen. Robert E. Lee.

Miller, William, born at New York.
Pupil of Frank Leslie's Publishing House. Chicago, 1893, medal. New York.
76 — Portrait of an Unknown Man.
77 — Confectioner.
78 — Moonlight.
79 — Maine Coast.

Northcote, Stafford M., born at Brooklyn, New York.
Pupil of E. Heinemann, Prof. Boyl. New York.
80 — Japanese Romance.

Pennell, Joseph, born at Philadelphia, Pennsylvania.
Pupil of Pennsylvania Academy of Fine Arts. Awards at Paris, Philadelphia, and Chicago. London, England, and Philadelphia.
81 — The Devil of Notre Dame.
82 — The Most Picturesque Place in the World.
83 — Aquatints of London.

Powell, Miss Caroline A., born at Dublin, Ireland.
Pupil of J. W. Linton and Timothy Cole. Chicago, 1893, medal. Cambridge, Massachusetts.
84 — Gorilla and Circassian Girl.
85 — Holy Night.
86 — Windmill.
87 — In the Sun.

Putnam, S. G., born at Nashua.
Pupil of H. W. Herrick, Frank French and E. J. Whitney, Brooklyn Art Association and Art Students' League. Paris, 1889, Exp'n, bronze medal; Chicago, 1893, medal. Oredell, New Jersey.
88 — A Street Musician.
89 — Princess Marie of Austria.
90 — The King's Messenger.
91 — Mirabeau and the King's Messenger.

Schladitz, E., born at Leipzig, Germany.
Chicago, 1893, medal. New York.
92 — Geo. Washington.
93 — Queen Louise.

Schwartzburger, C., born at Leipzig, Germany. Brooklyn, New York.
94 — Arrival of High Chinese Authorities, after drawing.
95 — An Arrest in the Village, after painting.
96 — The Chew Mansion, after H. Penn.

State, Charles, born at Montreal, Canada.
Pupil of John H. Walker. New York.
97 — Dumond's "Holy Family."
98 — Preparing for the Final Dance, Castaigne.
99 — Office of the Hebrew United Charities.
100 — Tyrolean Village, after Louis Loeb.

Tinkey, John, born at New York.
Pupil of J. D. Felter. Chicago, 1893, medal. New York.
101 — A Swineherd of the Danube.

Wellington, Frank H., Passaic, New Jersey.
102 — The Sea Fight, after Howard Pyle.
103 — Holland Landscape, after W. H. Ranger.

Wolf, Henry, born in Alsace.
Pupil of Jacques Levy. Paris, 1888 and 1889, Exp'n, honorable mention; Chicago, 1893, medal; Paris, 1895, honorable mention. New York.
104 — Miss Beatrice Goelet, after Sargent.
105 — Cynthia, after Cecilia Beaux.
106 — Reverie, after Cecilia Beaux.
107 — La Bernoise, after Dagnan-Bouveret.
108 — Le Crépuscule, after Alexander Harrison.
109 — The Evening Star, original.
110 — Un Canal en Artois, after J. C. Cazin.
111 — Through the Looking Glass, after J. A. Weir.

CLASS 9.

SCULPTURE AND ENGRAVING UPON MEDALS AND GEMS.

Barnard, George Grey, New York.
1 — God Pan.
2 — Hewer.
3 — The Two Natures.

Barnhorn, Clement J.
Pupil of Mercié, Peuch, Bouguereau, Ferrier, Académie Julien. Paris, 1895, honorable mention. Cincinnati, Ohio.
4 — A Magdalen.

Bartlett, Paul W., born at New Haven, Connecticut.
Pupil of Fremiet. St. Leu, S-et-O, France and New Haven, Connecticut.
5 — Statue of Michel Angelo.

Beveridge, Miss Kuehne, London, England, and Louisville, Kentucky.
6 — Veiled Venus.
7 — Wm. A. Chandler.

Bitter, Karl, Weehawken, New Jersey.
8 — Dancing Children, fountain; bronze.
9 — Boy Stealing Geese, fountain; bronze.

Borglum, Solon H., born at Ogden, Utah.
Pupil of Louis Rebisson and Fremiet. Paris, 1889, honorable mention. Paris and Cincinnati, Ohio.
10 — Lame Horse.
11 — Horse with Colt in Wind.
12 — Horse and Indian.

Brenner, Victor David, born at Shavley, Russia.
Pupil of Louis Oscar Roty. Paris and New York.
13 — Panel with Three Medallions.

Brooks, Carol MacNiel, born at Chicago. Paris.
42 — Fiasco Holder, bronze.
43 — Samovar, bronze.
44 — Giotto Giovane, bronze.

Brooks, Richard E., born at Braintree, Massachusetts.
Pupil of T. H. Bartlett and Injalbert. Paris, 1895, honorable mention; 1899, gold medal, 3d class. Paris and Boston, Massachusetts.
14 — Statue of Col. Cass.
15 — O. W. Holmes.
16 — Song of the Wave.

Calder, Alexander Sterling, born at Philadelphia, Pennsylvania. Pupil of Pennsylvania Academy of Fine Arts, Chapu and Falguières. Philadelphia, Pennsylvania.
17 — Narcissus.

Dallin, Cyrus E., Boston, Massachusetts.
18 — Medicine Man.

Flanagan, John, born at Newark, New Jersey.
Pupil of Ellen Kitson, Joseph Smith, Henri Chapu, Falguières. Paris and Newark, New Jersey.
19 — Swift Runners.
20 — Ten or Eleven Medallions in Metal on Board.
21 — Eagle for Top of Dome of United States Pavilion.
22 — Decorative Motive Crowning Angles of United States Pavilion.
23 — Head of Athlete.

French, Daniel C., born at Exeter, New Hampshire.
Pupil of Thomas Ball. Paris, 1892, gold medal. New York.
24 — Equestrian Statue of Geo. Washington.

Gelert, Johannes Sophus, born in Schleswig, Germany.
Pupil of Royal Academy of Fine Arts. New York.
25 — The Little Architect, marble.

Grafly, Charles, born at Philadelphia, Pennsylvania.
Pupil of Pennsylvania Academy of Fine Arts, Chapu, Dampt. Paris, 1891, honorable mention; 1893, medal. Philadelphia, Pennsylvania.
26 — The Symbol of Life.
27 — From Generation to Generation.
28 — Portrait of Mrs. Chas. Grafly.
29 — Portrait of My Mother.
30 — Vulture of War.

Harvey, Eli, born at Ogden, Ohio.
Pupil of Lentz, Noble, Rebisso, Constant, Lefebvre, Doucet, Delance, Chaillou, Fremiet. Paris and Cincinnati, Ohio.
31 — Lion Cubs.

Herring, Miss Mabel C., born at Boothlay, Maine.
Pupil of Merson, Collin, St. Gaudens, and MacMonnies. Paris and Boothlay, Maine.
32 — Echo.

Kitson, Henry Hudson, born at Huddersfield, England.
Pupil of Bonnassieux. Paris, 1889, Exp'n, medal; Chicago, 1893, medal. Boston, Massachusetts.
33 — Queen Elizabeth of Roumania, Carmen Sylva, marble.

Lucas, Albert P., Paris.
34 — Sambo.

MacMonnies, Frederick, born at Brooklyn, New York.
Pupil of Augustus St. Gaudens, Falguières. Chevalier of the Legion of Honor. Paris, 1889, honorable mention; 1891, 2d class medal; Chicago, 1893, medal. Paris, New York.
35 — Bacchante.
36 — Sir Henry Vane.

37 — Shakespeare.
38 — Two Groups Horses.
39 — Group Navy.
40 — Group Army.
41 — Venus and Adonis.

MacNeil, H. A., born at Chelsea, Massachusetts.
Pupil of Henri Chapu, Falguières. Chicago, 1893, medal. Paris, Boston, Massachusetts.
45 — The Sun Vow.
46 — Last Act of the Moqui Snake Dance.
47 — Spandrels on Portico of the United States Building.

Murray, Samuel, born at Philadelphia, Pennsylvania.
Pupil of Thomas Eakins. Paris, 1894, gold medal. Philadelphia, Pennsylvania.
48 — Portrait of Benjamin Eakins, Esq.

Peddle, Caroline C., born at Terre Haute, Indiana.
Pupil of Augustus St. Gaudens, Kenyon Cox. Paris and Terre Haute, Indiana.
49 — Bronze Clock.

Proctor, A. Phimister, Paris and New York.
50 — Quadriga for United States Pavilion.
51 — Indian Warrior.
52 — The Challenge Elk.
53 — Standing Puma.
54 — Standing Puma, pendant.
55 — Panther, "Fate."
56 — Young Fawn.
57 — Panther.

Rondebust, J. H., New York.
59 — The Wrestlers.

St. Gaudens, Augustus, Paris and New York.
60 — Equestrian Statue of Gen. Sherman with Victory.
61 — High Relief—The Shaw Memorial.
62 — Angel with the Tablet.
63 — The Puritan.
64 — Frame with Medallion; — portraits.

Scudder, Janet, Paris and New York.
65 — Decorative Panel for Music Room.

Simons, Amory C., born at Charleston, South Carolina.
Pupil of Dampt, Peuch. Paris and Charleston, South Carolina.
66 — Surprise.

Tilden, Douglas, Oakland, California.
67 — Football Players.

Vonnoh, Mrs. Bessie Potter, born at St. Louis, Missouri.
Pupil of Art Institute, Chicago. Rockland Lake, New York.
68 — A Young Mother.
69 — Girl Dancing.

Yandell, Enid, born at Louisville, Kentucky.
Pupil of Philip Martiney, MacMonnies and Rodin. Paris and Cincinnati, Ohio.
70 — Mermaid and Fisher Boy.

CLASS 10.

ARCHITECTURE.

Almirall. See Ingle.

Andrews, Jaques & Rantoul, Boston, Massachusetts.
1 — House at Brookline, Massachusetts.

Babb, Cook & Willard, New York.
2 — Building for the Devinne Press.

Benson. See Flagg.

Berg, Charles I., New York.
3 — Gillender Building.

Boring and Tilton, New York.
4 — Bureau of Immigration at Ellis Island.

Brite & Bacon, New Haven, Connecticut.
5 — Club House, New Haven, Connecticut.

Brockway. See Flagg.

Burnham, D. H., Chicago, Illinois.
6 — Masonic Temple, Chicago.
Theatre and Office Building.
Illinois Trust Company, Chicago.

Carrère & Hastings, New York.
7 — Hotel Ponce de Leon, St. Augustine, Florida.
New York Public Library.
Benedict House.
Residence of Henry T. Sloane.

Class. See Ferry.

Coolidge and Goustiaux, Chicago.
8 — United States Pavilion, Paris Exposition.

Cope & Stewardson, Philadelphia, Pennsylvania.
9 — House of Mr. John Sims, Laverock, Pennsylvania.
School for the Blind, Overbrook, Pennsylvania.
Dormitories of the University of Pennsylvania. Philadelphia, Pa.

Cram, Goodhue & Ferguson, Boston, Massachusetts.
10 — Church at Ashmont, Massachusetts.

Day, Frank Miles, & Brothers, Philadelphia, Pennsylvania.
11 — The Crozer Building, Philadelphia.
House of C. W. Bergner, Ambler, Pennsylvania.
House on Locust St., Philadelphia, Pennsylvania.
Horticultural Hall, Philadelphia, Pennsylvania.

Eyre, Wilson, Jr., Philadelphia, Pennsylvania.
12 — House of Craig Heberton, Camp Hill, Pennsylvania.
House of Charles L. Boree, Jenkintown, Pennsylvania.
Cottage, Lehman St., Germantown, Pennsylvania.
A Broker's Office, Philadelphia.

Ferry & Class, Milwankee, Wisconsin.
13 — Milwaukee Public Library.

Flagg, Benson & Brockway, New York.
14 — Singer Building, New York.
Scribner Building, New York.

Hardenberg, H. J., New York.
15 — Hotel Waldorf-Astoria, New York.

Hewlet. See Lord.

Heyden & Shepard, New York.
16 and 17 — Church at Scarborough.

Hull. See Lord.

Hunt, R. M., New York.
18 — Schieffelin Building.
Country House of John Jacob Astor.
Biltmore, Country Residence of George Vanderbilt.

Ingle and Almirall, Binghamton, New York.
19 — Town Hall, Binghamton.

Jaques. See Andrews.

Kimball. See Walker.

Kimball & Thompson, New York.
20 — Manhattan Life Building, New York.

Lord, Hewlett & Hull, New York.
21 — Cedarhurst, House at.

MacKim, Mead & White, New York.
22 — University Club, New York.
Boston Public Library.
Columbia College Library, New York City.

Morris. See Walker.

Peabody & Stearns, Boston, Massachusetts.
23 — Wheatleigh, Lenox, Massachusetts.

Post, George B., New York.
24 — Union Trust Bank, New York.

Price, Bruce, New York.
25 — American Surety Building, New York.

Rantoul. See Andrews.

Roid Brothers, San Francisco, California.
26 — Claus Spreckels Building, San Francisco, California.

Schweinfurt, A. C., San Francisco, California.
27 — Hearst House, California.

Shepard. See Hayden.

Shepley, Rutan & Coolidge, Boston, Massachusetts, and Chicago, Illinois.
28 — Ames Building, Boston.
Porch of Trinity Church, Boston.
House in Dedham, Massachusetts.

Thompson. See Kimball.

Vaughan, Henry, Boston, Massachusetts.
29 — Interior of Chapel of St. Paul's School, Concord, New Hampshire.
Exterior of Church, New Haven, Connecticut.

Walker & Kimball, Omaha, Nebraska.
30 — Omaha Exposition.

Walker and Morris, New York.
31 — Bronxville, New York.

Wheelwright & Haven, Boston, Massachusetts.
32 — Bowdoin School, Boston.
Brighton High School, Brighton, Massachusetts.

Whitney, Warren, New York.
33 — New York Yacht Club.

GROUP III.

APPLIANCES AND GENERAL PROCESSES RELATING TO LITERATURE, SCIENCE, AND ART.

ALEXANDER S. CAPEHART, DIRECTOR.

CLASS 11.

TYPOGRAPHY—VARIOUS PRINTING PROCESSES.

EQUIPMENT, PROCESSES, AND PRODUCTS.

Addressograph Company, 173 S. Canal St., Chicago.
Machines for addressing envelopes, wrappers, etc., and machine for making printing plates.

American Lithographing Company, 19th Street and 4th Avenue, New York.—Art and commercial lithography.

American Postal Machine Company, Boston, Mass.
Cancelling machines.

American Society of National Advertisers, Chicago.
Collection of hangers, calendars, etc., of advertisers of the United States.

CONTRIBUTORS.

American Lithograph Company, New York City.—Calendars.
California Fig Syrup Company, San Francisco, Cal.—Lithograph.
Drummond Tobacco Company, St. Louis, Mo.—Lithograph.
Dunston G. H. & Company, Buffalo, N. Y.—Lithograph.
Fairbank N. K. & Company, Chicago, Ill.—Calendars and signs.
Gillim Print Company, New York City.—Theatrical lithographs.
Gray Lithograph Company, New York City.—Calendar.

Greve Lithograph Company, Milwaukee, Wis.—Lithographs.
Harter Medicine Company, Dayton, Ohio.—Lithograph.
Hawes Hats, New York City.—Lithographs.
Hilson Company, The, New York City.—Lithographs.
Hood C. I. & Company, Lowell, Massachusetts.—Lithographs.
Kaufmann & Strauss Company, New York City.—Lithographs.
Leggett & Myers, St. Louis, Mo.—Lithograph.
Liebig Company, New York City.—Advertising cards.
Liebig Extract of Beef Company, New York City.—Lithograph.
Liebig Extract of Meat Company, New York City.—Lithograph.
Matthews-Northrup Company, Buffalo, N. Y.—Lithograph.
Michigan Stove Company, Chicago, Ill.—Lithograph.
Niagara Lithograph Company, Buffalo, N. Y.—Lithographs and calendars.
Ottman J. Lithograph Company, New York City.—Lithographs.
Pond's Extract Company, New York City.—Advertising cards.
Pope Manufacturing Company, Hartford, Conn.—Lithograph.
Prescott J. L. & Company, New York City.—Lithograph.
Rogers & Wells, Chicago, Ill.—Calendars.
Sherwood Lithograph Company, Chicago, Ill.—Lithograph.
Street & Smith, New York City.—Lithograph.
Swift & Company, Chicago, Ill.—Lithographs.
Witter, J. C., New York City.—Lithograph.

American 3 Color Company, 161-169 S. Canal St., Chicago.
Prints produced by three-color process.

American Type Founders' Company, 25 William St.,
New York City.—Type, type founders' supplies; modern composing, imposing, and commercial printing office.

American Typewriter Company, 265 Broadway, New York.
American typewriting machines.

American Writing Machine Company, 316 Broadway, New
York.—New Century typewriting machine.

Babcock Printing Press Manufacturing Company, New Lon-
don, Connecticut.—Babcock flat bed cylinder printing press.

Barnhart Brothers & Spindler, Great Western Type Foundry,
185 Monroe street, Chicago.—Type, type founders' supplies, modern composing, imposing, commercial printing office.

Barr-Fyke Cancelling Machine Company, Kansas City,
Missouri.—Cancelling machine.

Barrie, George, & Son, 1313 Walnut St., Philadelphia,
Pennsylvania.—Engravings, etchings and color fac-similes.

Barry Postal Supply Company, Oswego, New York.
Cancelling machine.

Blickensderfer Manufacturing Company, The, Stamford, Connecticut.—Blickensderfer typewriting, electrical writing, and cipher code machines.

Bowen, William M. P., 57 Waterman St., Providence, Rhode Island.—Carbon holder for manifold typewriting.

Brasseur, Charles L. A., 10 E. 15th St., New York. Specimens of color typography. Sampolo-Brasseur process.

Bureau of Engraving and Printing, U. S. A., Washington, D. C.—United States money, bonds, certificates, postal and revenue stamps.

Chandler & Price Company, Cleveland, Ohio. Gordon printing presses, composition rollers, chases, etc.

Chicago Colortype Company, 1205 Roscoe St., Chicago. Three-color process; reproductions from drawings of articles of merchandise.

Chicago Writing Machine Company, 96 Wendell St., Chicago.—Typewriting machines; Munson interchangeable steel typewheel.

Columbia Typewriter Manufacturing Company, The, 43 W. 116th St., New York City.—Columbia bar-lock typewriting machines.

Comley, William J., 11 Broadway, New York City. Colored gravure engravings.

Cottrell, C. B., & Sons Company, 41 Park Row, New York. High-speed Cottrell four-roller two-revolution printing press.

Densmore Typewriter Company, 309 Broadway, New York. Densmore typewriting machines. The five styles of machines shown all have the unique ball-bearing type-bars.

Des Jardins, B. M., Hartford, Connecticut. Adding attachment for typewriting machines.

Des Jardins Type Justifier Company, The, Hartford, Connecticut.—Automatic machines for justifying type in connection with setting and distributing type.

Dick Company, A. B., 154 Lake St., Chicago. The Edison mimeograph.

Doremus Cancelling Machine Company, St. James Building, Broadway, New York.—Cancelling machine.

Dow Composing Machine Company, The, Park Row Building, New York.—Machines for setting, justifying, and distributing movable type.

Duncan, J. S., 173 S. Canal St., Chicago.
Graphotype machine for making metal address plates; rubber type made from metal molds.

Durant, W. N., 237 22nd St., Milwaukee, Wisconsin.
Counting machines for use on printing presses; line casting and other machines.

Frank Leslie Publishing House, 143 Fifth Ave., New York.
Original art sketches in water color, wash drawing, pen and ink specimens.

Franklin Typewriter Company, 320 Broadway, New York City.—Franklin typewriting machines.

Gerry & Murry, 31 Broad St., New York.
Reproductions of type-written and autograph letters.

Golding & Company, Boston, Massachusetts.
Printers' rule, lead cutter, and composing sticks.

Goodson Graphotype Company, 21 Park Row, New York.
An automatic machine for casting and setting individual type in justified lines on galley.

Goss Printing Press Company, The, 16th St. and Ashland Av., Chicago.—Goss straightline multiple newspaper perfecting printing press.

Hamilton Manufacturing Company, Two Rivers, Wis-consin.—Wood type, ornaments; printing house furniture and supplies.

Hammond Typewriter Company, The, 537-551 E. 69th St., New York City.—Hammond typewriting machines.

Harris Automatic Press Company, Niles, Ohio.
Rapid automatic job printing presses.

Heinicke Fiegel Lithographing Company, First and Chestnut Streets, St. Louis, Missouri.—Specimens of commercial lithography.

Hempel & Dingens, Buffalo, New York.
Printers' mechanical quoins.

Imperial Manufacturing Company, Elkhart, Indiana.
Cardboard stencil cutting machine.

Inland Printer Company, The, 214 Monroe St., Chicago.
Specimens of printing from The Inland Printer.

Jewett Typewriter Company, Des Moines, Iowa.
Duplex and Jewett typewriting machines.

Lambert Typewriter Company, The, 83 Washington St., Brooklyn, New York.—Lambert typewriting machines.

Lanston Monotype Machine Company, Washington, D. C.
Key-board to manual process, and automatic type casting and composing machines.

Latham Machinery Company, 197 S. Canal Street, Chicago.
"Monitor" perforating machine for printing-house work.

Levy, Louis Edward, 824 N. 8th St., Philadelphia, Pennsylvania.—Acid blast method of chemical engraving, and machinery for its application.

Levy, Max, 1213 Race St., Philadelphia, Pennsylvania.
Screens for half-tone process, and proofs from engravings.

McKinley, William, Souvenir Committee, Philadelphia, Pennsylvania.—Historical water color pictures.

Mergenthaler Linotype Company, New York.
Machines for the mechanical composition of type.

Meyercord Company, The, Chamber of Commerce, Chicago.
Decalcomania transfer ornaments in both vegetable and mineral colors.

Miehle Printing Press & Manufacturing Company, 75 N. Clinton St., Chicago.—Miehle two revolution flat-bed book and color printing press.
Chicago, 1893, medal.

Miehle, Robert, Chicago.
Improvement in bed motion and sheet delivery of printing presses.

Mitchell, John J., Company, The, 105 Fifth Ave., New York.
Specimens of printing in the production of fashion plates.

Mittag & Vogler, Park Ridge, New Jersey.
Typewriter carbon papers, ribbons and oils; pencil and stylus carbon papers; stamping ribbons and metal stamp ink.

Morgan, W. J., & Co., Cleveland, Ohio.
Lithographs; 1. Reproduction of Rosa Bonheur's painting, The Horse Fair. 2. Portrait of President McKinley.
Chicago, 1893, Medal.

National Association of Photo-Engravers; 175 Clark Street, Chicago.—Messo-tint impression, photo mechanical reproduction processes.

National Machine Company, Hartford, Connecticut.
Gally Universal Printing Press.

Neostyle Manufacturing Company, The, 102 Church St., New York.—Various types of Neostyle duplicating machines.

Oliver Typewriter Company, The, Washington and Dearborn Sts., Chicago.—Oliver typewriting machines.

Osgood Art Colortype Company, Woman's Temple, Chicago.
New process for color printing.

Pittsburg Writing Machine Company, Pittsburg, Pennsyl- vania.—Pittsburg visible writing machines.

Poole Brothers, Chicago.
Printers' benzine can.

Quigley Furniture Company, Whitesboro, New York.
Adjustable tables for typewriters.

Remington-Sholes Company, 127 Rees Street, Chicago.
Remington-Sholes typewriting machines. Publication.

Ricketts, C. Lindsay, First National Bank Building, Chicago.
Engrossed and illuminated addresses of congratulations, thanks, etc., in gold and colors.

Rouse, Harry B., 1163 N. 70th Ave., Chicago.
Printers' lead and rule cutters, and printers' adjustable composing sticks.

Smith-Premier Typewriter Company, The, Syracuse, New York.—Smith-Premier typewriting machines. Publication.

Smith, R. H., Manufacturing Company, Springfield, Massa- chusetts.—Easy sign markers, rubber type and office stamps.

Tenney, J. F., Company, 70 Madison Street, Chicago.
Rubber type in fonts, price and sign markers' outfits.

Thomson, John, Press Company, 253 Broadway, New York City.—Platen printing presses and embossing machines.

Tiffany & Company, Union Square, New York.
Copper and steel plate and intaglio printing; stamping and embossing from dies.

Underwood, John, & Company, 30 Vesey St., New York City.—Typewriter supplies.

United States Government Printing Office, Washington, D. C.
Specimens of typography, reports of executive departments, scientific publications, etc.

Unitype Company, The, New York City.
Simplex typesetting machine.

Verbeck, George J., Michigan Avenue and Madison Street, Chicago.—Bank note engraving.

Wagner Typewriter Company, 220 Broadway, New York City.—The Underwood typewriting machines.

Wesel, F., Manufacturing Company, New York City.
Printers' brace galleys.

Western Bank Note & Engraving Company, Chicago.
Specimens of steel plate engraving and printing.

White, James, & Company, 177 Monroe St., Chicago.
Sample-book of printing and art papers.

Williams Typewriter Company, Derby, Connecticut.
Williams typewriting machines.

Wyckoff, Seamans & Benedict, 327 Broadway, New York City.—Remington typewriting machines; publication.

Yesbera Manufacturing Company, Toledo, Ohio.
Adjustable combination tables for exhibition purposes.

Yost Writing Machine Company, 320 Broadway, New York; 50 Holborn Viaduct, London, E. C., England; 36 Boulevard des Italiens, Paris, France.—Yost typewriting machines.

CLASS 12.

PHOTOGRAPHY.

EQUIPMENT, PROCESSES, AND PRODUCTS.

American Aristotype Company, Jamestown, New York.
Photographic prints.

Baker Art Gallery, 106 S. High Street, Columbus, Ohio.
Genre photographs.

Bausch & Lomb Optical Company, Rochester, New York.
Lenses, shutters, and fine photographic instruments; photographs.

Bendann, Daniel, 205 N. Carey St., Baltimore, Maryland.
Portraiture-photography.

Bolles, C. E., 244 Fulton Street, Brooklyn, New York.
Yachting and marine photographs.

Brasseur, Charles L. A., 10 E. 15th St., New York.
Polychrome screens, Sampolo-Brasseur color process and apparatus.

Brenner, W. N., 14-16 E. 4th St., Cincinnati, Ohio.
Portraiture photography.

Burton Photography Company, 9 W. 42nd Street, New York.
Yachting photographs.

Byron, Joseph, 1286 Broadway, New York City.
Flash-light photographs of scenes in American theaters.

Corne, W. F., 76 State St., Boston, Massachusetts.
Framed photograph, Mater Dolorosa.

Curtis & Cameron, Boston, Massachusetts.
Photographs known as Copley prints.

Detroit Photographic Company, Detroit, Michigan.
Platinum and silver print photographs, phototint, and monocrom.

Dodge, Charles Richards, 30-36 Vermont Avenue, Washington, D. C.—Artistic photography.

Eastman Kodak Company, Rochester, New York.
Kodaks, photographic apparatus and pictures.

Gibson Art Galleries, 195 Wabash Avenue, Chicago.
Portraiture photography.

Guerin, F. W., 506 Olive St., St. Louis, Missouri.
Portraiture photography.

Inglis Photo Paper Company, West Pullman, Chicago.
Photographic enlargements and photographic papers.

Lawrence, George R., 2701 Indiana Ave., Chicago.
Photographs by artificial light.

Lubin, Siegmund, 21 S. 8th St., Philadelphia, Pennsylvania.
Apparatus and materials for obtaining and reproducing cinegraph photography.

MacDonald, Pirie, 496 Broadway, Albany, New York.
Portraiture photography.

Nepera Chemical Company, Nepera Park, New York.
Photographic prints made on Nepera Chemical Company's products; demonstration of new velox products.

Photo-Materials Company, Rochester, New York.
Photographs.

Popular Photograph Company, 114 Bleecker St., New York.
Apparatus for instantaneous photography, known as Nodark.

Sampolo-Brasseur Company, The, 10 E. 15th St., New York.
The Sampolo-Brasseur process of color photography.

Schumacher, F. G., Los Angeles, California.
Photographs.

Shepherd Photo Company, Kendrick Block, St. Paul, Minnesota.—Portraiture and landscape photography.

Steckel, George, Los Angeles, California.
Studio photography.

Tabor Photographic Company, San Francisco, California.
Photographs and carbon prints.

Wheatley, Elizabeth S., Temple Court, New York City.
Photographic designing for illustrative purposes.

Wheatley, E. A., Temple Court, New York.
Photographic designing for illustrative purposes.

White Company, The, H. C., North Bennington, Vermont.—Patented dark chamber stereoscopes and stereoscopic views.

CLASS 13.

BOOKS, MUSICAL PUBLICATIONS, BOOKBINDING (EQUIPMENTS AND PRODUCTS), NEWSPAPERS, POSTERS.

Advance Publishing Company, 215 Madison St., Chicago.
Publication: The Advance.

American Baptist Publishing Society, 1420 Chestnut Street, Philadelphia, Pennsylvania.—Publications: The Advance Quarterly and various religious publications.

American Druggist Publishing Company, 68 W. Broadway, New York.—Publication: American Druggist & Pharmaceutical Record.

American Electrician Company, 120 Liberty St., New York City.—Publication: American Electrician.

American Florist Company, 324 Dearborn St., Chicago. Publication: The American Florist.

American Homes Publishing Company, Knoxville, Pennsylvania.—Publication: American Homes.

American Lutheran Publication Board, Pittsburg, Pennsylvania.—Publications: Lutheran Guide, and Lutheran Witness.

American Machinist Press, 218 William St., New York City.—Publication: American Machinist.

American Medical Association, 61 Market St., Chicago. Publication: Journal American Medical Association.

American Newspaper Directory, New York. Directory of American Newspapers.

American Peace Society, The, 3 Somerset St., Boston, Massachusetts.—Publication: The Advocate of Peace.

American Seamen's Friend Society, The, 76 Wall St., New York City.—Publication: The Sailors' Magazine.

American Shipbuilder, 7 Coenties Slip, New York. Publications.

American Society for Prevention of Cruelty to Animals, Madison Ave. and 26th St., New York City.—Publication: Our Animal Friends.

American Society of National Advertisers, Chicago. Collection of posters and cover designs of advertisers of the United States.

CONTRIBUTORS.

Achert & Henckel Lithograph Company, Cincinnati, Ohio.—Posters.
Adams & Westlake Company, Chicago, Ill.—Poster.
Ainslee & Company, Howard, New York City.—Cover designs.
American Cereal Company, Chicago, Ill.—Posters.
American Lithograph Company, New York City.—Posters.
Art Amateur, The, New York City.—Posters.
Baker, Walter, & Company, Dorchester, Mass.—Poster.

Bien, Julius, & Company, New York.—Posters.
Bookman, The, New York City.—Posters.
Century Company, The, New York City.—Cover designs.
Courier Company, Buffalo, N. Y.—Posters.
Denslow, W. W., Chicago, Ill.—Posters.
Dew Drop Cigar Company, New York City.—Poster.
Dunston, G. H., & Company, Buffalo, New York.—Cover designs.
Edwards, Deutch & Heitman, Chicago, Ill.—Poster.
Fairbank, N. K., Company, Chicago, Ill.—Poster.
Franco American Soup Company, New York City.—Cover design.
Gillen Lithograph Company, Philadelphia, Pa.—Posters.
Greve Lithograph Company, Milwaukee, Wis.—Posters.
Harper Brothers, New York City.—Posters.
Hart, Shafner & Marx, Chicago, Ill.—Posters.
Hood, C. I., & Company, Lowell, Mass.—Posters.
Inland Printer Company, The, Chicago, Ill.—Poster.
Kaufmann & Strauss Company, New York City.—Posters.
Ketterlinus Lithograph Company, Philadelphia, Pa.—Posters.
Leggett & Meyers, St. Louis, Mo.—Poster.
Liberty Cycle Company, Bridgeport, Conn.—Poster.
Liebig Extract of Meat Company, New York City.—Posters.
Michigan Stove Company, Chicago, Ill.—Poster.
Niagara Lithograph Company, Buffalo, N. Y.—Posters.
Orcutt Lithograph Company, New York City.—Posters.
Ottman, J., Lithograph Company, New York City.—Posters.
Pabst Brewing Company, Milwaukee, Wis.—Poster.
Pond's Extract Company, New York City.—Poster.
Prang, L., & Company, Boston, Mass.—Cover design.
Pyle, James, New York City.—Posters.
Rogers & Wells, Chicago, Ill.—Poster.
Round Oak Stove Works, Dowagiac, Mich.—Poster.
Sherwood Lithograph Company, Chicago, Ill.—Posters.
Soper, J. H., Gardner, New York City.—Cover design.
Sterling Remedy Company, Attica, Ind.—Posters.
Stokes, Frederick A., & Company, New York.—Posters.
Street & Smith, New York City.—Cover design.
Strowbridge Lithograph Company, Cincinnati, Ohio.—Posters.
Thomas & Wylie Lithograph Company, New York.—Poster.
Walker, George H., & Company, Boston, Mass.—Posters.
Wellman & Dwyer Tobacco Company, St. Louis, Mo.—Poster.
Winship & Company, Chicago, Ill.—Poster.
Woman's Home Companion, Springfield, Ohio.—Cover designs.

American 3 Color Company, 91 Plymouth Place, Chicago, Illinois.—Commercial catalogues and art publications.

Andrew, Thomas H., 811 Western Ave., Seattle, Wash-ington.—Publication: The American Forester.

Angus Sinclair Company, 95 Liberty St., New York City.
Publication: Locomotive Engineering.

Anthony, E. & H. T., & Company, 591 Broadway, New York.
Publication: Anthony's Photographic Bulletin.

Aull, Elbert H. & Company, Newberry, South Carolina.
Publications.

Barnes, A. S., & Company, 156 Fifth Ave., New York.
Publication.

Barrie, George, & Son, 1313 Walnut St., Philadelphia,
Pennsylvania.—Publications; printing, binding, reproductions. Paris, 1878, bronze medal; Philadelphia, 1878, bronze medal; Vienna, 1873, diploma; Chicago, 1893, medal.

Benjamin, W. E., 22 W. 33rd St., New York City.
Publications.

Benz, August, 813 Davis Street, Evanston, Illinois.
Publication.

Bergstresser, J. C., 339 Fifth Ave., Pittsburg, Pennsylvania.
Publication: Insurance World.

Bettelheim, E. S., 1441 Broadway, New York City.
Publication: New York Democratic News.

Bill, Edward Lyman, 3 E. 14th St., New York City.
Publication: Music Trade Review.

Birmingham, Ernest F., Park Row Building, New York.
Publication: The Fourth Estate.

Blumenberg Press, 214 William Street, New York.
Books, publications, catalogues, artistic prints.

Bohn, H. J., & Brother, 324 Dearborn St., Chicago.
Publication: The Hotel World.

Bolton, W. E., Woodward, Oklahoma.
Publication: Live Stock Inspector.

Bonner's, Robert, Sons, New York.
Publication: Ledger Monthly.

Book-Keeper Publishing Company, Limited, The, Buhl
Block, Detroit, Michigan.—Publication: The Book-Keeper.

Bowen, Clarence W., 130 Fulton St., New York City.
Publication: The Independent.

Bowker, R. R., 59 Duane St., New York City.
Publication: Publishers' Weekly.

Bowles, J. M., 234 Congress St., Boston, Massachusetts.
Publications: Modern Arts, and Arts and Crafts.

Branday, F. C., Whitney's Point, New York.
Publication: Practical Poultryman.

Brewers' Journal, The, 24 Park Place, New York City.
Publication: The Brewers' Journal.

Broadway Publishing Company, 1123 Broadway, New York.
Publication: Broadway Magazine.

Brooklyn Daily Eagle, The, Brooklyn, New York.
Guide to Paris Exposition.

Brush and Pencil Publishing Company, The, 215 Wabash Avenue, Chicago, Ills.—Publication.

Burrelle, Frank A., 32 Park Row, New York City.
Publications: Book of Press Clippings, etc.

Butterick Publishing Company, Ltd., 17 W 16th Street, New York.—Publication: The Delineator.

Butterworth, T., 152 50th St., Chicago.
Publication: The Live Stock Journal.

Calla, Max, & Company, 237 Dock St., Philadelphia, Pennsylvania.—Publications: Presbyterian, and Reformed Review.

Campbell, J. B., Monon Building, Chicago.
Publication: History of the Paris Exposition of 1900 and of the Chicago Exposition.

Campbell's Illustrated Journal, Monon Building, Chicago.
Illustrated publication.

Carl, William C., 34 W. 12th St., New York City.
Pamphlets, subject, The Church Organ.

Cassell & Company, Limited, 9 W. 18th St., New York City.—Publication: Cassell's Magazine.

Catholic Standard and Times Publishing Company, The, 211 S. 6th St., Philadelphia, Pennsylvania.—Publication.

Central Seventh Day Adventist Publishing Association, Battle Creek, Michigan.—Publication: Advent Review and Sabbath Herald.

Century Company, The, Union Square, New York.
The Century Magazine, St. Nicholas; original drawings and manuscripts.
Paris, 1889, Grand prix.

Chandler, A. D., 11 Warren St., New York City.
Publication: North American Review.

Chandler & Price Company, Cleveland, Ohio.
Paper cutter.

Chandler, Hannibal H., & Company, Chicago.
Publication: The Farmer's Review.

Chapple, Joe Mitchell, 71 Bedford St., Boston, Mass.
Publication: National Magazine.

Chassaignac & Dyer, Drs., 163 University Place, New Orleans, Louisiana.—Publication: New Orleans Medical and Surgical Journal.

Chicago Horseman Newspaper Company, 358 Dearborn St., Chicago.—Publication: The Horseman.

Christian Publishing Association, Dayton, Ohio.
Publication: Herald of Gospel Liberty.

Church, W. C. & F. P., 93 Nassau St., New York City.
Publication: United States Army and Navy Journal.

Churchman Company, The, 47 Lafayette Place, New York.
Publication: The Churchman.

Clark, Charles L., 10 Pacific Ave., Chicago.
Publication: Grain Dealers' Journal.

Clissold, H. R., 188 Madison St., Chicago.
Publication: Bakers' Helper.

Cobb, Benjamin F., 184 LaSalle Street, Chicago.
Publication: The Redford Review.

Colby, Clara Bewick, Washington, D. C.
Publication: The Woman's Tribune.

Cole, Frank B., Tacoma, Washington.
Publication: West Coast and Puget Sound Lumberman.

Colliery Engineering Company, The, Scranton, Pennsyl- vania.—Publications: Science & Industry, Mines & Minerals.

Columbia University, New York City.
Publication: School of Mines Quarterly.

Conant, William Cowper, 466 W. 151st St., New York City.—Publications: Salvation, Modern Medical Science.

Confectioners' Journal Publishing Company, 209 S. Sixth St., Philadelphia, Pennsylvania.—Publication: Confectioners' Journal.

Connecticut Magazine Company, Hartford, Connecticut. Publication: Connecticut Magazine.

Craig, E. H., 63 Beach St., New York City. Publication: Sewing Machine Times.

Criterion Publishing Company, 13 Pacific Avenue, Chicago. Publications: Mida's Criterion; Mida's Illustrated Magazine.

Criterion Publishing Company, 156 Fifth Ave., New York City.—Publication: Criterion.

Crouse, J. N., D. D. S., 2231 Prairie Ave., Chicago. Publication: The Dental Digest.

Curtis Publishing Company, The, 421 Arch St., Philadel- phia, Pennsylvania.—Publication: The Ladies' Home Journal.

Cycle Trade Publishing Company, Heed Building, Phil- adelphia, Pennsylvania.—Publication: Cycle and Automobile Trade Journal.

De Castello, Rev. S. M., 888 South Kedzie Ave., Chicago. Publication: Krestansky Posel.

Delano Publishing Company, The, T. H., 102 Chambers St., New York City.—Publication: Tobacco.

De Lestry, Edmund Louis, St. Paul, Minnesota. Publication: De Lestry's Western Magazine.

De Puy, Clarence C., 320 E. Onondaga St., Syracuse, New York.—Publication: American Poultry Advance.

Dexter Folder Company, Pearl River, New York. Machines for folding books and magazines.

Dexter, Marie L., 853 Carnegie Hall, New York City. Publication: The Parisian.

Dodd, Mead & Company, 149 Fifth Ave., New York City. Publication: The Bookman.

Dominion Company, The, 334 Dearborn St., Chicago. Publication: Facts and Fiction.

Dowst Brothers Company, 30 S. Clinton St., Chicago. Publication: National Laundry Journal.

Dunlap, John R., 122 Liberty St., New York.
Publication: The Engineering Magazine.

Dustin, William S., Dwight, Illinois.
Publication: The Banner.

Eastern Mennonite Conference, Schwenksville, Pennsylvania.—Publication: The Mennonite.

Educational Publishing Company, 50 Bromfield Street, Boston, Massachusetts.—Publications: Popular Education and Primary Education.

Edwards, Dr. London B., Richmond, Virginia.
Publication: Virginia Medical Semi-Monthly.

Electrical Review Publishing Company, 41 Park Row, New York City.—Publication: Electrical Review.

Electrical World and Engineer, 120 Liberty Street, New York City.—Publication.

Engelhard, G. P., 358 Dearborn Street, Chicago.
Publication: Western Druggist.

Engineering Mechanics Publishing Company, Philadelphia, Pennsylvania.—Publication: Engineering Mechanics.

Engineering News Publishing Company, 220 Broadway, New York.—Publication: Engineering News and American Railway Journal.

Epitomist Publishing Company, Indianapolis, Indiana.
Publication: Agricultural Epitomist.

Era Publishing Company, Chicago.
Publication: Medical Era.

Estes, Dana & Company, 208 Summer St., Boston, Massachusetts.—Books, bookbinding.

Ezekeil, Herbert T., Richmond, Virginia.
Publication: The Bi-Monthly Guild.

Farm and Ranch Publishing Company, Dallas, Texas.
Publication: Farm and Ranch.

Farm Implement News Company, 701 Masonic Temple, Chicago.—Publication: Farm Implement News.

Farmers' Voice, The, 334 Dearborn St., Chicago.
Publication: The Farmers' Voice.

Fassett, Charles Wood, Sixth and Charles Sts., St. Joseph, Missouri.—Publications: American Medical Journalist, Medical Herald.

Fassett, Herbert S., 263 Washington Boulevard, Chicago.
Publication: The Western Undertaker.

Fern Bulletin Company, Binghamton, New York.
Publication: The Fern Bulletin.

Finkel, B. F., Springfield, Missouri.
Publication: American Mathematical Monthly.

Fitzgibbon-Clark, Mrs., St. Louis, Missouri.
Publication: St. Louis and Canadian Photographer.

Forest and Stream Publishing Company, 346 Broadway, New York City.—Publication: Forest and Stream.

Frank Leslie Publishing House, 143 Fifth Ave., New York City.—Publication: Frank Leslie's Popular Monthly. Original poster designs.

Frank, M. M., 506 Arch St., Philadelphia, Pennsylvania.
Publication: Textile Colorist.

Fuller, E. Chubb, Indianapolis, Indiana.
Publication: The Practical Dairyman.

Funk & Wagnalls Company, 30 Lafayette Place, New York City.—Standard Dictionary and other works.
Chicago, 1893, medal.

Gazette Publishing Company, Los Angeles, California.
Publication: Hotel Gazette and Outing News.

Geological Publishing Company, Minneapolis, Minnesota.
Publication: American Geologist.

Gibson, Joseph W., 757 Broadway, New York City.
Publication: The Haberdasher.

Golden Rule Company, The, Boston, Massachusetts.
Publication: Christian Endeavor World.

Goodman & Dickerson Company, 324 Dearborn St., Chi- cago.—Publication: The Standard.

Green, Monte L., Cincinnati, Ohio.
Publication: Spokesman of the Carriage Trade.

Griswold, Kate S., 227 Washington St., Boston, Massachusetts.—Publication: Profitable Advertising and Art in Advertising.

Guild & Lord, 620 Atlantic Ave., Boston, Massachusetts.
Publication: Textile World.

Haight, R. J., 334 Dearborn Street, Chicago.
Publication: The Monumental News.

Halloran, J. E., 330 Market St., San Francisco, California.
Publication: Mining and Scientific Press.

Harbison, Joseph L., 1113 Chestnut St., Philadelphia, Pennsylvania.—Publication: Table Talk.

Harvey, Thomas F., 218 La Salle St., Chicago.
Publication: International Confectioner.

Haynes, D. O., & Company, 396 Broadway, New York.
Publications.

Heimstreet, E. B., Janesville, Wisconsin.
Publication: Wisconsin Druggists' Exchange.

Holler, John, 31 Broad St., New York City.
Publication: Dickerman's United States Treasury Counterfeit Detector.

Holzapfel, G., Cleona, Lebanon County, Pennsylvania.
Publications: The Pulpit, The Preacher's Helper.

Home Science Publishing Company, The, 485 Tremont Street, Boston, Massachusetts.—Publication: American Kitchen Magazine.

Housekeeper Corporation, The, 51 S. Fourth St., Minneapolis, Minnesota.—Publication: The Housekeeper.

Hubbard, Harlan Page, 38 Times Building, New York.
Publication: Hubbard's Newspaper and Bank Directory of the World.

Hudson, Rev. Daniel E., Notre Dame, Indiana.
Publication: The Ave Maria.

Huebsch, D. A., & Company, 31 Rose St., New York.
Publication: Huebsch's Year Book.

Hughes, William, 7134 Wentworth Ave., Chicago.
Publication: The Engraver and Electrotyper.

Hunter Publishing Company, Oak Park, Illinois.
Publication: The Star.

Idea Publishing Company, The, 61 Essex St., Boston, Mass.
Publication: Boston Ideas.

Inland Printer Company, The, 214 Monroe St., Chicago.
Publication: The Inland Printer.

Inland Publishing Company, 315 Dearborn St., Chicago.
Publication: The Inland Architect.

International Board of Women's Christian Association,
217 W. Ormsby Ave., Louisville, Kentucky.—Publication: International Messenger.

International Monthly, The, Burlington, Vermont.
Publication.

Iron and Steel Publishing Company, 40 Dearborn St.,
Chicago.—Publication: Iron and Steel.

Jenkins, William R., 851 Sixth Ave., New York City.
Publications.

Johns Hopkins Press, Baltimore, Maryland.
Books and periodicals on science, mathematics, philology, history and politics.

Johnson, I. S., & Company, 22 Custom House St., Bos-
ton, Massachusetts.—Publication: Farm—Poultry.

Journal of Commerce Company, Fullerton Street, St. Louis,
Missouri.—Publications: The St. Louis Lumberman, The Age of Steel.

Judge Company, 110 Fifth Ave., New York City.
Publications: Judge Library; Leslie's Weekly.

Judge, E. J., 38 S. Holliday St., Baltimore, Maryland.
Publication: The Trade.

Juvenile Literature Publishing Company, Hyde Park,
Massachusetts.—Publication: The Favorite.

Kansas Farmer Company, Topeka, Kansas.
Publication: Kansas Farmers.

Katlinsky, A. L., 5930 South Park Ave., Chicago.
"Mizrakh," a picture cut out of card board.

Kealing, H. T., 631 Pine St., Philadelphia, Penn.
Publication: African Methodist Episcopal Church Review.

Kellogg, Warren P., 5 Park Square, Boston, Massachusetts.
Publication: New England Magazine.

Keppler & Schwarzmann, New York City.
Publication: Puck.

Kilmer, H. E., Alliance, Ohio.
Publication: Woman's Journal of Reformed Church.

Kindergarten Literature Company, 203 Michigan Ave., Chicago.—Publication: Kindergarten Magazine.

Knauer, Erhard, 119 Fifth Ave., New York City.
Publication: Manufactures of the United States.

Knox, Frank H., Troy, New York.
Publication: City Government.

Koenig, Adolph, M. D., 108 Ninth St., Pittsburg, Pennsylvania.—Publication: Pennsylvania Medical Journal.

Langdon, Palmer H., 218 William St., New York City.
Publication: The Aluminum World.

Lasher & Osborne, Cincinnati, Ohio.
Publication: Journal and Messenger.

Latham Machinery Company, 197 S. Canal St., Chicago.
Monitor wire, stitching, and paging and numbering machines for books and pamphlets.

Lea Brothers & Company, 706 Sansom Street, Philadelphia, Pennsylvania.—Publication: American Journal of Medical Science.

Leffingwell, Charles W., Chicago.
Publication: The Living Church.

Life Publishing Company, 19 W. Thirty-first St., New York City.—Publication: Life.

Light of Truth Publishing Company, Columbus, Ohio.
Publication: Light of Truth.

Lippincott, J. B., Company, 720 Filbert St., Philadelphia, Pennsylvania.—Publications.

Little, Brown & Company, 254 Washington St., Boston, Massachusetts.—Books and illustrations.

Living Age Company, The, 13 1-2 Bromfield St., Boston, Massachusetts.—Publication: The Living Age.

Loeser's, Charles McK., Sons, 34 Beaver St., New York City.—Publication: Bonfort's Wine and Spirit Circular.

Lord & Thomas, Wabash and Randolph Sts., Chicago. Publication: Directory of the American Press.

Lothrop Publishing Company, 530 Atlantic Ave., Boston, Massachusetts.—Publications.

Low, George P., 320 California St., San Francisco, California.—Publication: Journal of Electricity, Power and Gas.

Lutheran Ministerium of New York, 12 State Street, New York.—Publication: Der Lutherische Herald.

McCall, Irving G., & Dickson, J. A., 1526 Marquette Building, Chicago.—Publication: Advertising Experience.

McClure, The S. S. Company, 141 E. 25th Street, New York. Publication: McClure's Magazine.

McCormick & Gray, 67 Dearborn St., Chicago. Publication: The Interior.

McCune, G. E., New Orleans, Louisiana. Publication: The Morning Star.

McGraw Publishing Company, 120 Liberty Street, New York. Publications: American Electrician and technical works.

McKinley, William, Souvenir Committee, 1313 Walnut Street, Philadelphia, Pennsylvania.—Naval and military history of the Nation.

Macmillan Company, The, 66 Fifth Ave., New York City. Publication: Science.

Mallett, D. F., 89 Chambers St., New York City. Publication: Hardware Dealers' Magazine.

Marine Record Publishing Company, Western Reserve Building, Cleveland, Ohio.—Publication: The Marine Record.

Marine Review Publishing Company, The, Cleveland, Ohio. Publication: Marine Review.

Mason, Perry, & Company, Boston, Massachusetts. Publication: The Youth's Companion.

Mason, Thomas, 414 East Pearl St., Cincinnati, Ohio.
Publication: Western Tobacco Journal.

Massachusetts Institute of Technology, Boston, Mass.
Publication: Technology Quarterly.

Massachusetts New Church Union, 16 Arlington St.,
Boston, Massachusetts.—Publication: The New Church Review.

Mayers, Jacob, 21 Park Row, New York City.
Publication: Butchers' Advocate.

Meade, Nathaniel W., 430 Walnut St., Philadelphia,
Pennsylvania.—Publication: Ladies' Home Magazine.

Mensch, Paul, & Company, 92 LaSalle Street, Chicago.
Publication: Directory of Chicago Office Buildings, illustrated.

Mercantile Adjuster Publishing Company, 150 Nassau St.,
New York.—Publication: The Mercantile Adjuster.

Merck & Company, 13 University Place, New York.
Publications: Merck's Report and Merck's Archives.

Merriam, G. and C., Springfield, Massachusetts.
Webster's International Dictionary of the English Language, and its abridgements.

Meyer, C. F. G., 316 Clark Ave., St. Louis, Missouri.
Publication: Meyer Brothers' Druggist.

Meyer, Henry G., 100 William St., New York City.
Publication: Engineering Record.

Meyer, J. S., 57 Washington St., Chicago.
Publication: Deaconess' Advocate.

Midland Publishing Company, St. Louis, Missouri.
Publication: Farm Machinery.

Miller, Mrs. L. K., Dayton, Ohio.
Publication: The Woman's Evangel.

Miller Publishing Company, Minneapolis, Minnesota.
Publication: Northwestern Miller.

Miner, E. N., 102 Fulton St., New York City.
Publication: Typewriter and Phonographic World.

Mitchell, John J., Company, 103 Fifth Ave., New York.
Publication: Fashions for Tailors.

Modern Miller Company, The, Third and Chestnut Sts., St. Louis, Missouri.—Publication: The Modern Miller.

Montfort & Company, Cincinnati, Ohio.
Publication: Herald and Presbyter.

Morse, T. Vernette, Fine Arts Building, Chicago.
Publications: Arts for America; Art Study Pictures.

Mowry, F. J., Rome, New York.
Publication: Harness Gazette.

Muller, L., Jr., Manhattan Building, Chicago.
Publication: The Architectural Studies.

Mumford, A. W., 203 Michigan Ave., Chicago.
Publication: Birds of All Nature.

Municipal Engineering Company, Indianapolis, Indiana.
Publication: Municipal Engineering.

Munn & Company, 361 Broadway, New York City.
Publications: Scientific American and its various editions.

Murphy, James Shields, Boston, Massachusetts.
Publication: The Golfer.

National Iron & Steel Publishing Company, Pittsburg, Pennsylvania.—Publication: American Manufacturer and Iron World.

National Printing Company, 509 S. 12th St., Omaha, Nebraska.—Publication: Hospodar.

National Railway Publication Company, The, 24 Park Place, New York City.—Publication: Travelers' Official Railway Guide.

New England Publishing Company, 3 Somerset Street, Boston, Massachusetts.—Publication: Journal of Education.

New York Daily Times, Park Row, New York City.
Processes showing United States methods of producing a daily newspaper.

New York Lumber Trade Journal, The, New York City.
Publications: The New York Lumber Trade Journal.

New York Musical Courier Company, 19 Union Square, New York City.—Publication: Musical Courier.

Nolan Publishing Company, Drexel Building, Philadelphia, Pennsylvania.—Publication: The Implement Age.

Ohmann-Dumesnil, A. H., St. Louis, Missouri.
Publication: St. Louis Medical and Surgical Journal.

Olszewski, Anton, 924 33rd St., Chicago.
Publication: Lietuva.

Orange Judd Company, 52 Lafayette Place, New York City.—Publication: American Agriculturist.

Ormsby, F. E., 358 Dearborn St., Chicago.
Publication: Planets and People.

Outing Publishing Company, The, 239 Fifth Ave., New York City.—Publication: Outing.

Outlook Company, The, 287 Fourth Ave., New York City.—Publication: The Outlook.

Overland Monthly Publishing Company, San Francisco, California.—Publication: Overland Monthly.

Pacific Press Publishing Company, Oakland, California.
Publications: Pacific Health Journal, etc.

Paine, Cassius M., Milwaukee, Wisconsin.
Publication: Whist.

Palmer, Mrs. Lucia A., Yonkers, New York.
Books: Grecian Days, Oriental Days.

Parkinson & Kengla, 1121 Sutter St., San Francisco, California.—Publication: Occidental Medical Times.

Partridge, A. E., Seattle, Washington.
Publication: Washington Odd Fellows.

Pasadena Exhibition Association, Pasadena, California.
France in American Magazines.

Pathfinder Publishing Company, Akron, Ohio.
Publication: The Pathfinder.

Pettingill & Company, Boston, Massachusetts.
Publication: National Newspaper Directory and Gazette.

Phelps Publishing Company, Springfield, Massachusetts.
Publication: Farm and Home.

Philadelphia College of Pharmacy, 145 N. 10th Street, Philadelphia, Pennsylvania.—Publication: American Journal of Pharmacy.

Photographic Times Publishing Association, The, New York City.—Publication: The Photographic Times.

Poet-Lore Company, 16 Ashburton Place, Boston, Massachusetts.—Publication: Poet-Lore.

Porter, Taylor & Company, Chicago.
Publication: The National Builder.

Potter-Kendall Company, The, Boston, Massachusetts.
Publication: The Nickel Magazine.

Potter, W. W., Company, 91 Bedford Ave., Boston, Massachusetts.—Publication: The National Magazine.

Powell, Edwin C., Chatham, New York.
Publication: Fancier's Review and Fruit Grower.

Price, Charles W., 41 Park Row, New York City.
Publication: Electrical Review.

Professional Photographer Publishing Company, 220 Washington St., Buffalo.—Publications: Professional Photographer, and Process Review and Journal of Electrotyping.

Publishers' Weekly, The, 59 Duane St., New York City.—Periodicals and books of reference.

Putnam, Eben, Danvers, Massachusetts.
Publication: Putnam's Historical Magazine.

Putnam, G. P's, Sons, 29 W. 23rd St., New York City.
Publication: American Anthropologist.

Railroad Gazette, The, 32 Park Place, New York City.
Publication: The Railroad Gazette.

Railway Review, The, 1305 Manhattan Building, Chicago.—Publication: Railway and Engineering Review.

Rand, McNally & Company, Chicago.
Publications: Bankers' Monthly and Directory. Educational text-books.

Randall, T. A., & Company, Indianapolis, Indiana.
Publication: The Clay Worker.

Redding, W. E., 127 Duane St., New York City.
Publication: Harness.

Reinert Publishing Company, The, Denver, Colorado.
Publication: Daily Mining Record.

Reinnagel, G. H., 39 Cortlandt St., New York City.
Publication: The Fireman's Herald.

Review and Herald Publishing Company, Battle Creek, Michigan.—Publications: Review and Herald, etc.

Review of Reviews Company, The, 13 Astor Place, New York City.—Publication: Review of Reviews.

Review Publishing and Printing Company, Walnut and Fourth Streets, Philadelphia.—Publication: American Exchange and Review.

Rhodes, Bradford & Company, 78 William St., New York City.—Publication: Bankers' Magazine.

Rich, H. S. & Company, 177 LaSalle Street, Chicago.
Publication: The Western Brewer.

Ridenor & Jenks, Washington Post Building, Washing- ton, D. C.—Publication: Army and Navy Register.

Rodkinson, Michael L., 1332 Fifth Ave., New York City.—Publication: New Edition Babylonian Talmud.

Rogers & Mason, Boston, Massachusetts.
Publication: The Brickbuilder.

Rollins, C. E., 161 LaSalle St., Chicago.
Publication: The Argus.

Root, The A. I., Company, Medina, Ohio.
Publication: Gleanings in Bee Culture.

Rosback, Fred P., 60 S. Canal St., Chicago.
Wire stitching machine for books and pamphlets.

Rough Notes Company, The, Indianapolis, Indiana.
Publication: Rough Notes.

Rowell, George P., & Company, 10 Spruce St., New York City.
Publication: Printers' Ink.

Ryan, P. J., D. D., 211 S. 6th St., Philadelphia, Penn- sylvania.—Publication: American Catholic Quarterly Review.

Sanders, T. H., Publishing Company, 356 Dearborn St., Chicago.—Publication: The Breeders' Gazette.

Saunders, W. L., 26 Cortlandt St., New York City.
Publication: Compressed Air.

Seafert, William, 161 LaSalle St., Chicago.
Publication: Cement and Engineering News.

Sheague, G. A., Cincinnati, Ohio.
Publication: Express Gazette.

Sherron, Charles B., Philadelphia, Pennsylvania.
Publication: Varnish.

Shoe and Leather Reporter, New York City.
Publications: Shoe and Leather Reporter; The Shoe Retailer.

Shoe Trade Journal, 192 Fifth Ave., Chicago.
Publication: Shoe Trade Journal.

Short Story Publishing Company, 144 High St., Boston, Massachusetts.—Publication: The Black Cat.

Sibley Journal of Engineering, Ithaca, New York.
Publication: Sibley Journal of Engineering.

Singer Manufacturing Company, The, 149 Broadway, New York.—Machines for binding books and pamphlets.

Small, Maynard & Company, 8 Beacon St., Boston, Massachu-setts.—Publications.

Smalley, E. V., St. Paul, Minnesota.
Publication: Northwest Illustrated Monthly Magazine.

Stager, Henry J., 938 Spring Garden Street, Philadelphia, Pennsylvania.—Publication: Camp News.

Starchroom Publishing Company, The, Cincinnati, Ohio.
Publication: Starchroom Laundry Journal.

Stern, Daniel, 69 Dearborn Street, Chicago.
Publication: American Artisan and Hardware Record.

Stiggers, E. G., Washington, D. C.
Publication: Inventors' Age.

Stone, Herbert S., & Company, Eldridge Court, Chicago.
Publications.

Street & Smith, 238 William St., New York City.
Publication: Ainslee's Magazine.

Street Railway Publishing Company, 120 Liberty St., New York City.—Publications: Street Railway Journal; Street Railway Investments.

Strong, Henry R., 514 Century Building, St. Louis, Missouri.—Publication: National Druggist.

Studer, Jacob H., 114 Fifth Avenue, New York.
Publication: Imperial Quarto Book.

Swedish Methodist Episcopal Book Concern, 152 Oak St., Chicago.—Publication: The Herald (Sandebudet).

Taltavall, John B., 253 Broadway, New York City.
Publication: The Telegraph Age.

Terhune, W. L., 13 Columbia St., Boston, Massachusetts.
Publication: Boot and Shoe Recorder.

Textile Publishing Company, The, 78 Walker St., New York City.—Publication: The Dry Goods Economist.

Thirlkeld, Rev. L. A., 6 S. Calvert St., Baltimore, Maryland.
Publication: Baltimore Methodist.

Thompson Publishing Company, Chicago.
Publication: The Confectioner and the Baker.

Town Topics Publishing Company, 208 Fifth Ave., New York City.—Publications: Town Topics, and Tales from Town Topics.

Trades Weekly Company, The, 65 Nassau St., New York City.
Publications: Jewelers' Weekly and Clothiers' and Haberdashers' Weekly.

Universal Peace Union, 219 Chestnut Street, Philadelphia, Pennsylvania.—Publication: Peacemaker and Court Arbitration.

United States Industrial Publishing Company, 31 State St., New York City.—Publications.

United States Trade Mark Association, The, 34 Nassau St., New York City.—Trade marks, etc.

University of Wisconsin, Madison, Wisconsin.
Publication: The Wisconsin Engineer.

Van Oost, John W., 23 Union Square, New York City.
Publication: The Art Amateur.

Vegetarian Company, The, 78 Madison St., Chicago.
Publication: The Vegetarian Magazine.

Voigt, Henry E., Hamburg, Wisconsin.
Publication: Der Gefluegel Zuechter.

Von Klenner, Madam K. Evans, 40 Stuyvesant St., New York City.—Vocal musical pamphlets, documents, etc.

Ware Brothers, 1118 Market St., Philadelphia, Penn-
Publications: Carriage Monthly, Export Carriage.

Wasson, B. S., & Company, 91 and 93 S. Jefferson Street, Chi-cago.—Publication: Roadmaster & Foreman.

Watchman Publishing Company, The, Tremont Temple,
Boston, Massachusetts.—Publication: The Watchman.

Webster, Alice, and Pratt, Candace R., 325 Dearborn St., Chi-cago.—Publication: The Household Realm.

Werner, Edgar S., Publishing and Supply Company, 48 E.
Nineteenth Street, New York.—Publication: Werner's Magazine.

West, Miss Bina M., Port Huron, Michigan.
Publication: The Ladies' Review.

Wetter, Joseph, & Company, 515 Kent Ave., Brooklyn, New York.—Numbering machines.

Whitaker, George F., 36 Bromfield St., Boston, Mass-achusetts.—Publication: Zion's Herald.

White City Art Company, The, 315 Dearborn St., Chi-cago.—Publication: Great Pictures.

White, Frank B., Company, Fisher Building, Chicago.
Publication: Agricultural Advertising.

Wild, Edwin O., St. Joseph, Missouri.
Publication: Journal of Commerce.

Wiley, John, & Son, New York.
Publications upon mineralogy and minerals.

Wilkins, William E., 66 W. Broadway, New York City.
Publication: Merchants' Review.

Williams, Edwin, 295 Adams St., Brooklyn, New York.
Publication: Harmony evolved as an exact science.

Williams, Thomas A., Takoma Park, D. C.
Publication: Asa Gray Bulletin.

Willy, John, 325 Dearborn St., Chicago.
Publication: The Hotel Monthly.

Wise, Leo, & Company, Fifth Avenue and Race Street, Cincinnati.—Publications: American Israelite and Die Deborah.

Wisser, John P., Fortress Monroe, Virginia.
Publication: Journal of the United States Artillery.

Woman's Board Home Missions Presbyterian Church, 156 Fifth Ave., New York City.—Publication: Home Mission Monthly.

Woman's Board of Foreign Missions Reformed Church in America, 25 E. Twenty-second St., New York City.—Publication: The Mission Gleaner.

Woman's Christian Association of Philadelphia, Eighteenth and Arch Streets, Philadelphia, Pennsylvania.—Publication: Faith and Works.

Woman's Medical Journal, The, 311 Superior Street, Toledo, Ohio.—Publication devoted to the Science of Medicine.

Wonderly, Mrs. A., Lyons, Kansas.
Publication: Weavers' Herald.

Wood, Lovett M., Seattle, Washington.
Publication: The Trade Register.

Wood, William & Company, 51 Fifth Avenue, New York.
Publications: Medical Record and Journal of Obstetrics.

Woodward, T. R., 300 Dearborn St., Chicago.
Publication: The National Engineer.

World's Maritime News Company, The, 63 William St., New York City.—Publication: New York Maritime Register.

Yale Medical School, New Haven, Connecticut.
Publication: Yale Medical Journal.

Yates, C. L., Rochester, New York.
Publication: The National Nurseryman.

Young Churchman Company, The, Milwaukee, Wisconsin.
Publication: Our Young People.

CLASS 14.

MAPS AND APPARATUS FOR GEOGRAPHY AND COSMOGRAPHY. TOPOGRAPHY.

California Paris Exposition Commission, San Francisco, California.—Relief maps of Yosemite Valley, California, and State of California.

Central School Supply House, Atlas Block, Chicago. Relief map of the United States.

Department of the Navy, U. S. A., Bureau of Equipment, Washington, D. C.—Model or relief map of the West Indies and Caribbean Sea.

Lord & Thomas, Trude Building, Chicago, Illinois. Maps and charts illustrating newspaper and publishing industry in the United States.

Rand, McNally & Company, 160 Adams St., Chicago. Geographies, maps, charts, etc.

CLASS 15.

INSTRUMENTS OF PRECISION. COINS AND MEDALS.

APPLIANCES, PROCESSES, AND PRODUCTS.

American Arithmometer Company, 2102 Washington St., St. Louis, Missouri.—Automatic adding and registering machines.

American Numismatic and Archaeological Society, The, 17 N. 43d St., New York City.—Coins and medals.

American Optical Company, Southbridge, Massachusetts. Optical goods.

Bay State Optical Company, Attleboro, Massachusetts. Optical goods and machines for making same.

Brandt-Dent Company, The, Watertown, Wisconsin.
Automatic cash register.

Brashear, John A., Allegheny City, Pennsylvania.
Astronomical and physical instruments.

Brasseur, Charles L. A., 10 E. 15th St., New York.
Colorimeter, synthesis of spectrum.

Brown & Sharpe Manufacturing Company, Providence,
Rhode Island.—Standard gauges, micrometer and vernier calipers, rules, try squares, straight edges, index and surface plates, etc.

Bureau of the Mint, U. S. A., Washington, D. C.
United States coin money. Medals issued by United States. Lafayette coin dollars, and dies.

Department of the Navy, U. S. A., Washington, D. C.
Medals voted by Congress to United States naval officers. Seal of the Navy Department carved in wood.

Des Jardins, B. M., Hartford, Connecticut.
Labor saving computing instruments. Automatic computing scales for commercial purposes.

Ferracute Machine Company, Bridgeton, New Jersey.
Presses, dies and other machinery for the manufacture of all kinds of metal coins, medals, badges, etc.

Hastings, Prof. Charles S., New Haven, Connecticut.
Isochromatic object glasses.

Hygienic Optical Company, 1147 Broadway, New York.
Optical goods.

International Arithmachine Company, Roanoke Build-
ing, Chicago.—Calculating machines.

King, Julius, Optical Company, New York.
Optical goods.

Le Maitre Optical Company, New York.
Optical goods and machines for making same.

Lubin, Siegmund, 21 S. 8th St., Philadelphia, Pennsylvania.
Eye testing apparatus.

Mills Novelty Company, 23 S. Jefferson St., Chicago.
Automatic coin operating machines.

National Cash Register Company, Dayton, Ohio.
Cash registers, adding details or totals, printing checks, etc.

Rowland, Prof. Henry A., Baltimore, Maryland.
Diffraction gratings.

Scripture, Prof. Edward W., 109 Elm St., New Haven, Connecticut.—Color sense tester for detection of color-blindness and color-weakness.

Simmons, John, Company, New York.
Optical goods.

Spencer Optical Company, New York.
Optical goods.

Universal Calculator Company, Fisher Building, Chicago.
Calculating machines.

Warner & Swasey, Cleveland, Ohio.
Astronomical instruments.

CLASS 16.

MEDICINE AND SURGERY.

American Hard Rubber Company, Akron, Ohio.
Special rubber parts of apparatus for correcting deformities of human body.

Banning Orthopedic and Mechanical Therapeutic Company, Fort Wayne, Indiana.—Appliances for correcting deformities and malpositions of the internal organs of the human trunk. This company manufactures the "Perfected Banning System of Support."

Beck, E. S., New York City.
A formal generator, with automatic diaphragm pressure valve.

Bloom, J. D., M. D., New Orleans, Louisiana.
Glass bowl for preserving vaseline in sterile form.

Boldt, H. J., M. D., New York City.
General operating table.

Boston Dental Parlors, 146 State Street, Chicago, and 44 E. 14th Street, New York City.—Dental supplies and artificial sets of teeth.

Brand, A. F., Brooklyn, N. Y.
Aseptic wheel stretcher.

Clark, A. C., & Company, Masonic Temple, Chicago.
Cuspidors for dentists' chairs.

Clark, J. C., M. D., New York City.
Apparatus for the sterilization of catgut by cumol.

Cleveland, Clement, M. D., New York City.
Gynecological operating table.

Crescent Steel Company, Pittsburg, Pennsylvania.
Special steel parts of apparatus for correcting deformities of human body.

Dental College, Philadelphia, Pennsylvania.
Models and specimens of work.

Dental Department, University of California, San Francisco.
Models and specimens of work.

Dental Department, University of Pennsylvania, Philadelphia, Pennsylvania.—Models and specimens of work.

Dental Department, Vanderbilt University, Nashville, Tennessee.—Models and specimens of work.

Dental Department, Western Reserve University, Cleveland, Ohio.—Models and specimens of work.

Dental Surgery, College of, Chicago, Illinois.
Models and specimens of work.

Harvard Company, The, Canton, Ohio.
Dental chairs, surgical chairs, and instrument cabinets.

Invalid Chair Company, 701 Broadway, New York City.
Invalid chairs.

Jackson, Victor H., M. D., 240 Lenox Ave., New York.
Orthodontia: Models showing a system of correcting irregularities of the teeth and deformities of the jaws.

Kelly, F. D., M. D., Peoria, Illinois.
Prosthetic dentistry.

Kelly, Howard, M. D., Baltimore, Maryland.
Endoscopic instruments for examining the rectum.

Knopf, S. A., M. D., New York City.
Pocket sputum flask for tuberculosis patients.

Kny, Richard, New York City.
Aseptic glass hospital washstands.

Kny-Scheerer Company, The, 17 Park Row, New York City.—Surgical operating theatre-sterilizing laboratory, armarium chirurgicum and sick room supplies.

Lagai, George, M. D., New York City.
Apparatus and instruments. Preparations and specimens.

Laplace, Ernest, Philadelphia, Pennsylvania.
Set of anesthomosis forceps.

Marks, A. A., 701 Broadway, New York City.
Artificial limbs with rubber feet and hands. Surgical appliances, crutches, and invalid chairs. Inventors of rubber hands and feet. Philadelphia, 1876, medal; Chicago, 1893, medal.

Marks, George E., 701 Broadway, New York City.
Knife and fork combined.

Marks, William L., 701 Broadway, New York City.
Clamp buckles for surgical appliances.

Meyer, John H., 117 W. 48th St., New York City.
Improved artificial teeth of continuous gum.

Meyer, Willy, M. D., New York City.
Storage battery for galvano-caustic operations.

Miller Rubber Manufacturing Company, Akron, Ohio.
Specialties in rubber for physicians and surgeons.

Munger, E. E., M. D., Spencer, Iowa.
Invalid and fracture bed.

National Institute of Dental Pedagogy of America.
Collective exhibit representing six dental colleges of the United States, with models and dental work.

New England Crutch Company, 701 Broadway, New York City.—Crutches.

Ritter Dental Manufacturing Company, The, Rochester, New York.—Dental chairs and electrical appliances.

Rorick Air Cushion Truss Company, The, 1224 F St. N. W., Washington, D. C.—Air cushions, trusses, and abdominal supports.

Seabury & Johnson, 59-61 Maiden Lane, New York City.
Medicinal and surgical plasters, surgical dressings and specialties.

Sibley, Gideon, 1214 Filbert St., Philadelphia, Pennsylvania.
Dental instruments, appliances, and supplies. Dental chairs.

CLASS 17.

MUSICAL INSTRUMENTS.

MATERIALS, PROCESSES, AND PRODUCTS.

Adek Manufacturing Company, 121 W. 42d St., New York.
Self playing pianos and attachments.

American Felt Company, The, Dolgeville, New York.
Felts for musical instruments.

American Graphophone Company, Bridgeport, Connecticut.
Graphophones and supplies.

Art Joinery, The (Charles Dannenfelser), Cincinnati, Ohio.
Workmanship in wood.

Baldwin, D. H., and Company, Cincinnati, Ohio.
Model of piano factory, showing inside and outside views, statistics, etc.

Baldwin Piano Company, The, Cincinnati, Ohio.
Concert grand pianos; grand and upright pianos. Parts used in piano construction; sections of cases; samples of woods.
Upright grand piano for National Building, American design, San Domingo mahogany.
Upright grand piano for office Liberal Arts Department, Colonial design, carved.
Small grand piano for Salon, white mahogany. Louis XVI. style, carved.

Barnhorn, Clement J., Cincinnati, Ohio.
Design and carving of Baldwin upright piano.

Bohmann, Joseph, Chicago, Illinois.
Stringed and vibrating instruments.

Brown & Patterson, Brooklyn, New York.
Piano plates.

Burton, C. H., & Company, Cincinnati, Ohio.
Veneers and cabinet woods used in construction of pianos and organs.

Chicago Brass Company, Chicago.
Reeds and reed boards for cabinet organs.

Columbia Phonograph Company, 143 Broadway, New York, and 34 Boulevard des Italiens, Paris.—Complete series of graphophones, phonographs, records, etc.

Comstock, Cheney & Company, Ivoryton, Connecticut.
Upright piano action, keys and keyboard.

Consalvi, Icilio, 5 Garden Court, Boston, Massachusetts.
Banjo consisting of 39,987 pieces.

Elsner & Anderson, Cincinnati, Ohio.
Plans and specifications of Baldwin piano factory buildings.

Flagg Manufacturing Company, 110 Lincoln St., Boston, Massachusetts.—Zithers and harps.

Fry, William H., Cincinnati, Ohio.
Carving on Baldwin pianofortes.

Guerin, P. E., New York City.
Gilt and bronze ornaments for upright piano cases.

Hall, Thomas J., Cincinnati, Ohio.
Joinery in construction of grand piano cases.

Hamilton Organ Company, The, Chicago, Illinois.
Reed organs and upright pianos.

Kelly, The O. S., Company, Springfield, Ohio.
Baldwin upright piano plate casting.

Kerr, Clarence E., Cincinnati, Ohio.
Workmanship in grand and upright piano sounding boards.

Kleist, Eugene de, North Tonawanda, New York.
Automatic organs and metal wind instruments.

Larapedie, Christian, 5 Germain St., Boston, Massachusetts.
Violins and violoncello.

Ludwig & Company, New York City.
Pianos and self-playing attachments for same. These pianos are built with full iron frame, four-ply running pin blocks, double veneered cases and turpentine varnish finish; the self-playing attachment has the principle of air pressure (not suction); having a multiplied force, its action is a direct transmission of power on the keys.

Macy, John W., Cincinnati, Ohio.
Scheme of construction for the Baldwin pianos.

Mannello, Angelo, 680 Eagle Ave., New York City.
Mandolins and guitars.

Moran, Horace, New York City.
Original design of case for upright piano.

Piano and Organ Supply Company, Chicago.
Keyboards for organs.

Pratt, Reed & Company, Deep River, Connecticut.
Three sets of piano keys.

Reindahl, Knute, 553 N. Caroline St., Chicago.
Violins.

Shriver, T., & Company, New York City.
Baldwin grand piano plate casting.

Sorenson, Andrew J., Chicago.
Design for cabinet organ and scheme of construction for case work.

Staib-Abendschein Company, The, New York City.
Three actions for upright pianos and model.

Strauch Brothers, New York City.
Upright pianoforte action and keys.

Wickham, Chapman & Company, Springfield, Ohio.
Iron plate for upright piano.

CLASS 18.

THEATRICAL APPLIANCES AND EQUIPMENT.

Andrews, The A. H., Company, 300 Wabash Ave., Chicago.—Opera chairs.

Buchholz, Herman, Springfield, Massachusetts.
Theatrical and American jewelry.

Byron, Joseph, 1286 Broadway, New York.
Flash light photographic scenes in American Theaters.

Chicago Auditorium Association, Chicago, Illinois.
Exterior and interior views of the Auditorium Opera House.

GROUP IV.

MACHINERY.

FRANCIS E. DRAKE, DIRECTOR.

CLASS 19.

STEAM ENGINES.

Advance Packing and Supply Company, Chicago.
Gum Core Packing.

Ambler Asbestos Air Cell Covering Company, New York City.—Boiler and pipe covering.

American Fire Engine Company, Seneca Falls, New York.
Water tube boilers and stationary steam engines.

American Injector Company, Detroit, Michigan.
Injector.

American Steam Gauge Company, Boston, Massachusetts.—Steam engine indicator.

American Steam Packing Company, Boston, Massachusetts.
Steam packing.

Ashton Valve Company, The, 271 Franklin St., Boston, Massachusetts.—Valves for boilers, pumps and engines; safety and relief valves; pressure and vacuum gauges.
Chicago, 1893, medal.

Ball Engine Company, The, Erie, Pennsylvania.
Automatic steam engine for electric light and power service.

Blake, George F., Manufacturing Company, New York City.—Steam pumps.

Bowen Manufacturing Company, Auburn, New York.
Dust-proof oil cups.

Brady, J. P., 1946 N. Halsted St., Chicago.
Brady turbine (rotary steam engine).

Brandt, Randolph, 38 Cortlandt St., New York.
Packing for steam engines, jackets for boilers.

Burt Manufacturing Company, Akron, Ohio.
Purifiers and filters for lubricating oils.

Canfield Manufacturing Company, The, Philadelphia, Pennsylvania.—Spiral and ring packing.

Chesterton, A. W., & Company, Boston, Massachusetts.
Steam packing.

Cleveland Rubber Works, Cleveland, Ohio.
Steam hose.

Clonbrock Steam Boiler Company, Brooklyn, New York.
Steam boilers, vertical water-tube type.

Coale Muffler & Safety Valve Company, Baltimore, Maryland.—Combined pop valve and muffler.

Crandall Packing Company, Palmyra, New York.
Packing.

Crane Company, Chicago.
Brass and iron valves and fittings, screwed and flanged, for wrought iron pipe, for all pressures of steam, gas, or water. Steam and gas fitters' tools, engine trimmings, etc.
Philadelphia, 1876, medal; Chicago, 1893, medal.

Crosby Steam Gauge & Valve Company, Boston, Massachusetts.—Steam indicators, gauges and valves.

De Rycke, Joseph, New York City.
Steam separators.

D'Estes & Seeley Company, Boston, Massachusetts.
Steam traps.

Detroit Lubricator Company, Detroit, Michigan.
Apparatus for lubricating steam engines; "Detroit" sight feed lubricator.

Direct Separator Company, Syracuse, New York.
Steam separator.

Dixon, Joseph, Crucible Company, Jersey City, New Jersey.
Lubricating graphite.

Eagle Oil & Supply Company, Boston, Massachusetts.
Ring packing.

Fiske Brothers Refining Company, New York.
Lubricating oils for steam engines and all kinds of machinery.

Forbes, W. D., & Company, Hoboken, New Jersey.
Vertical type steam engines. One engine of 25 H. P. to be in operation direct connected to generator of Bullock Electric Manufacturing Company.

Ford, Thomas P., New York City.
Regulator valve, water valve.

Fort Wayne Safety Valve Company, Fort Wayne, Indiana.
Safety valve.

Foster Engineering Company, Newark, New Jersey.
Valves.

Galvanic Metal Paper Company, New York City.
Metal packing.

Goodsell Packing Company, Chicago.
Rubber-back packing, flax and stitched packing for engines and steam pumps.

Hayden & Derby Manufacturing Company, New York City.—Metropolitan injectors.

Higbee Joint Company, Philadelphia, Pennsylvania.
Pipe joints.

Homestead Valve Manufacturing Company, Homestead, Pennsylvania.—Patent three-way cocks.

Hoyt Metal Company, St. Louis, Missouri.
Metallic packing.

Hubbard & Company, Buffalo, New York.
Phoenix flue cleaner.

Ingersoll-Sergeant Drill Company, New York City.
Regulators and governors for steam engines.

Johns, H. W., Manufacturing Company, New York.
Asbestos covering for steam pipes.

Kennedy Valve Manufacturing Company, The, New York City.—Globe and check valves.

Keystone Engineering & Manufacturing Company, Philadelphia, Pennsylvania.—Steam separator.

Lackawana Lubricator & Manufacturing Company, Scranton, Pennsylvania.—Grease cups.

Lee Injector Manufacturing Company, The, Detroit, Mich. Injectors for boiler feeding.

Leonard & Ellis, New York. (Henry Hamelle, Agent, Paris.) Lubricating oils for engines and machines.

Locke Regulator Company, Salem, Massachusetts. Pump governing and reducing valves.

Lunkenheimer Company, The, Cincinnati, Ohio. Brass and iron engineering appliances; globe, angle, cross, check, gate, and stop valves, cocks, pop safety valves, whistles, water gauges, injectors and lubricating devices.

Mabbs Hydraulic Packing Company, Chicago. Packing.

McDondland, George T., Brooklyn, New York. Steam gasket.

Manzel Brothers, Buffalo, New York. Automatic oil-pump.

Mosher, Charles D., New York City. Steam separator and grease extractor.

Nathan Manufacturing Company, New York. Lubricators.

National Injector Company, Cleveland, Ohio. Injector.

New Bedford Boiler & Machine Company, New Bedford, Massachusetts.—Boiler stop valves.

New Jersey Car Spring & Rubber Company, Jersey City, New Jersey.—Packing and gaskets.

Oil Well Supply Company, Pittsburg, Pennsylvania. Portable boilers and engines, valves, joints.

Orvis & Hawkes, Chicago. Model of improved boiler furnace.

Peerless Rubber Manufacturing Company, New York City.
Steam packing and hose.

Penberthy Injector Company, Detroit, Michigan.
Injector.

Phoenix Metallic Packing Company, Chicago.
Metallic packing.

Phoenix Steam Packing Company, New York City.
Packing.

Pittsburg Steam Jacket Lubricating Company, Pittsburg, Pennsylvania.—Steam cylinder lubricator.

Powell, William, Company, Cincinnati, Ohio.
Compression grease cups.

Reid Manufacturing Company, Erie, Pennsylvania.
Patent oil cups.

Reliance Gauge Column Company, Philadelphia, Pa.
Safety water column.

Restein, Clement & Company, Philadelphia, Pennsylvania.
Asbestos diagonal packing.

Robins Conveying Belt Company, Park Row Buildings, New York City.—Conveying machinery for feeding boilers and coal pockets; handling broken stone, coke, ore and cement, waste from excavations; loading vessels and railroad cars.

Schaffer & Budenberg, Brooklyn, New York.
Calorimeter.

Sellers, William, & Company, Inc., Philadelphia, Pennsylvania.
Self-acting injector. Automatically adjusts water supply without waste at overflow. Restarts automatically if jet is broken. Capacity increases with steam pressures from 15 to 225 pounds. Minimum capacity at 180 pounds 43 per cent of maximum.

Paris, 1867, gold medal; Vienna, 1873, Diploma of Honor and five medals; Philadelphia, 1876, three medals; Paris, 1889, Grand prix.

Sherwood Manufacturing Company, Buffalo, New York.
Automatic injector. Double tube injector.

Smoothon Manufacturing Company, Jersey City, New Jersey.
Compound for repairing boilers and pipes.

Taunton Locomotive Manufacturing Company, Taunton, Massachusetts.—Feed water heater.

Thorpe, Pratt & Company, New York.
Geipel's patent steam trap.

United States Metallic Packing Company, Philadelphia, Pennsylvania.—Metallic packing.

Vacuum Oil Company, Rochester, New York.
Lubricating oil for steam engines and machinery.

Walworth Manufacturing Company, 14 Oliver St., Boston, Massachusetts.—Valves, cocks, joints, piping, etc.

Watson, N. A., Erie, Pennsylvania.
Injector.

Watt's, John M.'s Sons, New York City.
Packing grease and metal polish.

Welsh Packing Company, Philadelphia, Pennsylvania.
Combination gasket.

Wheeler Condenser & Engineering Company, 120 Liberty St., New York.—Feed water heaters, pumps and condensers.

Whitfield Company, Memphis, Tennessee.
Compound steam engine.

Wilkinson & Company, Boston, Massachusetts.
Oil cups.

Winkley, F. D., Madison, Wisconsin.
Dust proof oil hole covers.

CLASS 20.

VARIOUS MOTORS.

Ingersoll-Sergeant Drill Company, New York City.
Engines and motors operated by compressed air.

Meitz & Weiss, 128 Mott St., New York City.
Oil engine operated by crude or volatile oils.

Pelton Water Wheel Company, San Francisco, California.
Water wheels.

Rider-Ericsson Engine Company, 22 Cortlandt St., New York.
Hot air engines.

Smith, S. Morgan, Company, York, Pennsylvania.
Hydraulic motors, turbines for horizontal and vertical shafts.

CLASS 21.

GENERAL MACHINERY.

Allington & Curtis Company, Boston, Massachusetts.
Dust collector and exhaust piping.

American Fire Engine Company, Seneca Falls, New York.
Steam fire engines, pumps and apparatus.

Ashcroft Manufacturing Company, New York.
Steam gauges.

Batcheller Pneumatic Tube Company, New York City.
Air compressors and pipes. A complete system of pneumatic transmission applicable to mail, express and freight.

Bilgram, Hugo, Philadelphia, Pennsylvania.
Fine bevel gears.

Boston Belting Company, Boston, Massachusetts.
Hose, valves and mechanical rubber goods.

Bristol Company, The, Waterbury, Connecticut.
Special recording pressure gauges.

Chapman Valve Manufacturing Company, Indian Orchard,
Massachusetts.—Valves and hydrants.

Chicago Raw Hide Manufacturing Company, Chicago.
Rawhide pinions.

Christensen Engineering Company, Milwaukee, Wisconsin.
Portable automatic air compressor.

Cleveland Gear Works, Cleveland, Ohio.
Gear.

Cleveland Rubber Works, Cleveland, Ohio.
Air hose.

Crane Company, Chicago.
Water pipes, valves and accessories.

Cresson, George V., Company, Philadelphia, Pennsylvania.
Power transmitting machinery, shafting, pedestals, etc.

Crosby Steam Gauge & Valve Company, Boston, Mass.
Steam gauges.

Dresser, S. R., Bradford, Pennsylvania.
Piping, joints and accessories.

Durant, Walter N., Milwaukee, Wisconsin.
Automatic revolution counting device.

Fire Extinguisher Manufacturing Company, Chicago.
Apparatus for fire protection, portable and semi-portable.

Fisher Governor Company, Marshalltown, Iowa.
Pump governors and reducing valves.

Ford, Thomas P., New York City.
Pump regulating and reducing valve.

Graber, H. S., St. Louis, Missouri.
Automatic water gauge.

Greenwood, Oliver, K., Baltimore, Maryland.
Anti-friction metal for bearings.

Harris & Baldwin, Jamestown, New York.
Friction clutches.

Henderer's, A. L., Sons, Wilmington, Delaware.
Hydraulic jacks.

Hollands Manufacturing Company, Erie, Pennsylvania.
Pipe cutters.

Horsburgh & Scott, Cleveland, Ohio.
Rawhide gears.

Hoyt Metal Company, St. Louis, Missouri.
Special "white metal" for bearings.

Ingersoll-Sergeant Drill Company, New York City.
Air and gas compressors, motors, regulators and receiver intercoolers.

Jeffrey Manufacturing Company, Columbus, Ohio.
Conveying and elevating machinery.

Kennedy Valve Company, New York City.
Water valves.

Lippencott Steam Specialty Company, New York City.
Steam indicators.

Locke Regulator Company, Salem, Massachusetts.
Stop governor for steam engines.

Ludlow Valve Manufacturing Company, The, Troy, New York.—Water valves, hydrants, and accessories.

Mabbs Hydraulic Packing Company, Chicago.
Hydraulic packing.

Monarch Fire Appliance Company, 27 William St., New York.
Powdered chemical compound for extinguishing fires, incased in metal cylinders.

Monarch Governor & Machine Company, Indianapolis, Ind.
Governor for steam engine.

Monarch Manufacturing Company, The, Waterbury, Conn.
Device for speed limits on engines.

Neptune Meter Company, 253 Broadway, New York City.
Water meters.

New Process Rawhide Company, Syracuse, New York.
Pinions in rawhide.

Oil Well Supply Company, Pittsburg, Pennsylvania.
Brass and iron fittings for steam, gas, water and oil pipes.

Olson, Tinius & Company, Philadelphia, Pennsylvania.
Power automatic and autographic tensile compression and transverse testing machines, micrometer, measuring instruments and viscosimeters.

Rand Drill Company, New York City.
Air compressors and accessories.

Reeves Pulley Company, Columbus, Indiana.
Power transmitting devices. Wood split pulleys, clutches, speed varying countershafts.

Rice Gear Company, Hartford, Connecticut.
Gears.

Robins Conveying Belt Company, Park Row Buildings, New York City.—Conveying apparatus for coal, ore, etc.

Roots, The, P. H., and F. M., Company, Connersville, Indiana.
Positive pressure blower-motor.

Saunder's, D., Sons, Yonkers, New York.
Pipe cutter.

Schaffer & Budenberg, New York.
Carpenter calorimeter.

Schieren, Charles A., & Company, 47-51 Ferry St., New York.
Oak tanned leather, finished croutons, curried belting, butts, valve leather, lace leather, oak bark tanned leather belting, electric and perforated electric leathers, leather for dynamos. American patent joint leather link belting.
Philadelphia, 1876, medal; Paris, 1889, medal; Chicago, 1893, medal.

Silverman, Lazarus, Chicago.
Lubricating material.

Stillwell-Bierce & Smith-Vaile Company, The, Dayton, Ohio.
Electrically driven triplex pump; jet condenser.

Stow Manufacturing Company, Binghamton, New York.
Flexible shaft and lathe center grinders.

Stuarts Foundry & Machine Works, New Hamburg, New York.—Compression wedge coupling.

Sturtevant, B. F., & Company, Boston, Massachusetts.
Exhaust fans and blowers.

Tabor Manufacturing Company, Elizabeth, New Jersey.
Stop motion revolution counters.

Thomson Meter Company, 79-83 Washington St., Brooklyn, New York.—The Lambert disc water meter, made entirely of bronze, for pipes ½-inch to 6-inch diameter.

Tight Joint Company, New York.
Hydraulic flange union.

Torrey, H. S., 100 Broadway, New York.
Special anti-friction metal for bearings.

Trautvetter Brothers, Paterson, New Jersey.
Recording gauges.

Tripler Liquid Air Company, 121 W. 89th St., New York.
System for liquifying air—processes and products.

Tyler, The, W. S., Company, Cleveland, Ohio.
Passenger elevator cars in National Pavilion.

Vacuum Oil Company, Rochester, New York.
Lubricators, oilers, dynamometers and power measuring devices, indicators.

Walworth Manufacturing Company, 14 Oliver St., Boston, Massachusetts.—Water pipes and accessories.

Watson-Stillman Company, New York City.
Hydraulic jack.

Worthington Pumping Engine Company, 120 Liberty St., New York City.—Steam pumping machinery; water meters.

CLASS 22.

MACHINE TOOLS.

Acme Machinery Company, Cleveland, Ohio.
Machinery for forging, cutting and heading bolts; for tapping nuts.

Almond, Thomas R., Brooklyn, New York.
Drill chucks.

American Machinery Company, Grand Rapids, Michigan.
Machines, hand operated for wood trimming.

American Tool & Machinery Company, Boston, Massachusetts.
Brass finishing lathes and tools.

American Turret Lathe Works, Wilmington, Delaware.
Turret lathes for heavy metal working.

Armstrong Brothers Tool Company, Chicago.
Tool holders.

Atkins, E. C., & Company, Indianapolis, Indiana.
Saws, tools and saw mill specialties.

Baker Brothers, Toledo, Ohio.
Keyway cutters and drill presses.

Barnes, W. F. & John, Company, Rockford, Illinois.
Upright drilling machines.

Bates Machine Company, Joliet, Illinois.
Automatic wire nail machine.

Becker-Brainerd Milling Machine Company, Hyde Park, Massachusetts.—Milling machines.

Becker, John, Fitchburg, Massachusetts.
Milling machines.

Bement, Miles & Company, Philadelphia, Pennsylvania.
Machine tools.

Bickford Drill & Tool Company, Cincinnati, Ohio.
Radial drill and multiple gear cutter.

Bowsher, N. P., South Bend, Indiana.
Balancing ways for balancing revolving parts of machines.

Bradford Mill Company, Cincinnati, Ohio.
Engine lathes.

Bridgeport Gun Implement Company, Bridgeport, Conn.
Augurs and bits.

Brown & Sharpe Manufacturing Company, Providence, Rhode Island.—Milling, grinding, screw and gear cutting machines, milling cutters, and other metal working machine tools.

Brown, R. H., & Company, New Haven, Connecticut.
Reid chucks.

Buffalo Forge Company, Buffalo, New York.
Tool forge with blower.

Builders' Iron Foundry, Providence, Rhode Island.
Grinding and polishing machinery.

Bullard Machine Tool Company, Bridgeport, Connecticut.
Boring and turning mills and turret machines.

Burr, John T., & Son, Brooklyn, New York.
Machine tools for metal working.

Carborundum Company, The, Niagara Falls, New York.
Grinding wheels.

Card, S. W., Manufacturing Company, Mansfield, Massa- chusetts.—Taps and dies.

Carpenter, The J. M., Tap & Die Company, Pawtucket, Rhode Island.—Taps and dies.

Cataract Tool & Optical Company, Buffalo, New York.
Small chiseling lathe.

Chicago Pneumatic Tool Company, Chicago.
Pneumatic hammers, drills, riveters, boring machines, flue welders, cutters, and rollers; air tools of all kinds.

Cincinnati Milling Machine Company, The, Cincinnati, Ohio.
Milling machines, universal cutters and tool grinders.

Cincinnati Planer Company, Cincinnati, Ohio.
Machine tools.

Cleveland Twist Drill Company, Cleveland, Ohio.
Twist drills, reamers, milling cutters, etc.

Clough, R. H., Tolland, Connecticut.
Adjustable reamers.

Clough, Rockwell, Company, Alton, New Hampshire.
Automatic machines for making wire corkscrews.

Coes, L., Wrench Company, Worcester, Massachusetts.
Monkey wrenches.

Coffin & Leighton, Syracuse, New York.
Machinists' rules.

Curtis & Curtis, Bridgeport, Connecticut.
Machines for pipe cutting and threading.

Cushman Chuck Company, Hartford, Connecticut.
Lathe chucks.

D'Amour & Littledale, New York City.
Power drill presses.

Deering Harvester Company, Chicago.
Automatic machines for working in metal.

Dock, Herman, Philadelphia, Pennsylvania.
Center grinding tool.

Doig, William, S., 54-56 Franklin St., Brooklyn, New York.
Box nailing machines.

Eames, G. T., & Company, Kalamazoo, Michigan.
Chucks, drill-grinder.

Eames, Wilfred Company, Rochester, New York.
Drill grinder.

Errington, F. A., New York City.
Machine tools, drills, taps, etc.

Farrington, F. A., New York.
Taps and dies.

Fay, J. A., & Egan Company, Cincinnati, Ohio.
Wood working, wood sawing and planing machinery.
Paris, 1889, grand prix; Chicago, 1893, medal.

Fellows Gear Shaper Company, Springfield, Vermont.
Gear shapers and cutters.

Ferracute Machine Company, Bridgeton, New Jersey.
Machines for sheet metal working.

Flather & Company, Nashua, New Hampshire.
Machine tools.

Flather Planer Company, The, Nashua, New Hampshire.
Machine tools, lathes, planers and shapers.

Foster, Walter H., New York City.
Twist drill grinder.

Gay & Ward, Athol, Massachusetts.
Milling machine cutters.

Geometric Drill Company, New Haven, Connecticut.
Drills.

Gibson, A. C., Buffalo, New York.
Steel stamps for marking tools.

Gisholt Machine Company, Madison, Wisconsin.
Machine tools, turret machines.

Gleason Tool Company, Rochester, New York.
Gear planers.

Goodell-Pratt Company, Greenfield, Massachusetts.
Hack saw blades.

Gorton, George, Machine Company, Racine, Wisconsin.
Machine tools: disc grinders; universal surface grinders.

Grant Machine Tool Works, The, Cleveland, Ohio.
Machine tools for working in metal.

Hampden Corundum Wheel Company, Brightwood, Mass.
Corundum wheels.

Hardinge Brothers, Chicago.
Split or wire chucks.

Hart Manufacturing Company, Cleveland, Ohio.
Hand tools for cutting threads.

Healy, William P., 515 Chamber of Commerce, Chicago.
Automatic box making machinery.

Hendey Machine Company, Torrington, Connecticut.
Machine tools for metal working.

Higginbottom-Davis Journal & Alarm System, Chicago.
Electric thermostatic device for indicating temperature of machine bearings.

Hilles & Jones Company, Wilmington, Delaware.
Metal punching and shearing machines.

Hill, Hugh, Tool Company, Anderson, Indiana.
Tool holder.

Hoggson & Pettis Manufacturing Company, New Haven, Connecticut.—Scroll chucks.

Holland's Manufacturing Company, Erie, Pennsylvania.
Pipe vises, tongs and cutters.

Horton, E., & Son Company, Windsor Locks, Connecticut.
Chucks for brass finishers, milling, grinding, and screw machines; drills; cutting off lathes; boring mills for car wheels.

Ingersoll Milling Machine Company, The, Rockford, Illinois.
Heavy milling machines.

Jones & Lamson Machine Company, Springfield, Vermont.
Flat turret lathe for rapid work with full outfit of turret tools including the Hartness automatic screw cutting die. This machine handles rough or smooth bars, round, square, or hexagon, and every variety of work under two inches diameter and twenty-four inches long.
Chicago, 1893, medal.

Kearney & Foot, New York. (Henry Hamelle, Agent, Paris.)
Files.

Landis Tool Company, Waynesboro, Pennsylvania.
Universal grinding machines.

Le Blond, R. K., Machine Tool Company, Cincinnati, Ohio.
Engine lathes for metal working.

Le Count, Wm. G., South Norwalk, Connecticut.
Light steel tool.

Leisenring, John, Manufacturing Company, Belmont and Elm Avenues, Philadelphia, Pennsylvania.—Machine lead screws and portable keyseating machines.

Leland & Faulconer Manufacturing Company, Detroit, Mich.
Lathe center grinder.

Lidell & Williams, 597 Austin Ave., Chicago.
Automatic wood carving machinery for panels, concave and convex surfaces.

Lucas, J. L., Providence, Rhode Island.
Dies.

Markt & Company, New York City.
Machine tools for metal working.

Meadville Vise Company, Meadville, Pennsylvania.
Culinder boring machine.

Merchants Manufacturing Company, 7 Water St., Boston, Massachusetts.—Automatic machines for placing hinges upon boxes.

Morgan Machine Company, Rochester, New York.
Machinery for making wooden boxes.

Morse Twist Drill & Machine Company, New Bedford, Massachusetts.—Twist drills, reamers, chucks, milling cutters, taps and dies, mandrels, sockets, and machinists' tools.

Morton Manufacturing Company, Muskegon Heights, Mich.
Shaping machine.

Mossberg & Granville Manufacturing Company, Providence, Rhode Island.—Metal press and automatic drop.

New Haven Manufacturing Company, New Haven, Conn.
Metal planer, lathes.

New Process Twist Drill Company, Taunton, Massachusetts.
Hot-forged twist drills.

Nicholson, W. H., & Company, Wilkesbarre, Pennsylvania.
Expanding mandrels.

Niles Tool Works Company, Hamilton, Ohio.
Machine tools; lathes, planers, boring mills, and special machines.

Norton Emery Wheel Company, Worcester, Massachusetts.
Emery and corundum wheels, emery wheel machinery and specialties.

Oesterlein Machine Company, Cincinnati, Ohio.
Milling machines for metal work.

Oneida National Chuck Company, Oneida, New York.
Chucks.

Oster Manufacturing Company, Cleveland, Ohio.
Adjustable threading tools for pipes and bolts.

Owen Machine Tool Company, Springfield, Ohio.
Machine tools.

Pearson Machine Company, Chicago.
Machine tools for metal working.

Perkins Machine Company, South Boston, Massachusetts.
Machine tools.

Pond Machine Tool Company, Hamilton, Ohio.
Machine tools for metal working.

Potter & Johnston Company, Pawtucket, Rhode Island.
Machine tools for metal working.

Pratt & Whitney Company, Hartford, Connecticut.
Machine tools for metal working, small tools and standards.

Pratt Chuck Company, The, Frankfort, New York.
Drill chucks.

Prentice Brothers Company, Worcester, Massachusetts.
Drilling machinery and engine lathes.
Chicago, 1893, medal.

Prentiss Vise Company, New York.
Vises.

Q. and C. Company, Chicago.
Pneumatic tools and machines for metal cutting.

Quint, A. D., Hartford, Connecticut.
Vertical turret drilling machine.

Ransom, Perry, Oshkosh, Wisconsin.
Grinding machine.

Reece, E. F., & Company, Greenfield, Massachusetts.
Taps and screw plates.

Reed, F. E., Company, Worcester, Massachusetts.
Power lathes for working in metal.

Rice Gear Company, Hartford, Connecticut.
Gear cutting machines.

Richardson, C. F., & Son, Athol, Massachusetts.
Machinist level and gauges.

Rivett-Dock Company, The, Brighton, Massachusetts.
Thread cutting tool.

Rogers, J. M., Boat Gauge & Drill Works, Gloucester City, New Jersey.—Gauges for measuring work.

Sackman, F. A., Cleveland, Ohio.
Steels stamps for tool marking.

Safety Emery Wheel Company, Springfield, Ohio.
Tool grinding machine.

St. Louis Machine Tool Company, St. Louis, Missouri.
Bench grinder.

Saunders', D., Sons., Yonkers, New York.
Patent wheel pipe cutters.

Saw Company, New York.
Emery wheels.

Sawyer Tool Company, Fitchburg, Massachusetts.
Surface gauge.

Simonds Manufacturing Company, Fitchburg, Massachusetts.
Saws and machine knives of all kinds and of higher grades only.
Six branch houses in the United States.
Philadelphia, 1876, medal; Chicago, 1893, three medals.

Skinner Chuck Company, New Britain, Connecticut.
Chucks.

Slocum, J. T., & Company, Providence, Rhode Island.
Micrometer caliper.

Smith, H. B., Machine Company, Smithville, New Jersey.
Various machines for wood working.

Springfield Machine Tool Company, Springfield, Ohio.
Power lathes for metal working.

Springfield Manufacturing Company, Providence, Rhode Island.—Special planer type grinding machine.

Standard Pneumatic Tool Company, Chicago.
A complete air plant in actual operation, consisting of pneumatic drills, hammers, flue rolling, reaming, tapping and boring machines, riveters, etc., showing various classes of work in railroad and boiler shops, shipyards, iron and bridge works, foundries and manufactories.

Standard Tool Company, The, Cleveland, Ohio.
Twist drills (taper shank, straight shank and three gauge), reamers, milling cutters, chucks, mandrels, sockets.

Starrett, The L. S., Company, Athol, Massachusetts.
Tools for machinists, carpenters and draughtsmen; micrometers, rules, dividers, calipers, hack saws, etc.

Stiles & Parker Press Company, Brooklyn, New York.
Sheet metal working machinery.

Sussfeld, Lorsch & Company, 27-29 Maiden Lane, New York City.—Machine tools for working in metal and wood.

Thompson, Henry, G., & Son Company, New Haven, Conn.
Saws for metal cutting.

T. & B. Tool Company, New Bedford, Massachusetts. Owned by Morse Twist Drill Company.—Twist drills, taps, dies, milling cutters, reamers, etc.

Trimont Manufacturing Company, Roxbury, Massachusetts.
Pipe cutters and wrenches.

Trump Brothers Machine Company, Wilmington, Delaware.
Lathe center grinder.

Union Manufacturing Company, New Britain, Connecticut.
Chucks.

Universal Machine Company, Providence, Rhode Island.
Machine tools.

Vanderbeck Tool Works, Hartford Connecticut.
New dividing head.

Vitrified Wheel Company, Westfield, Massachusetts.
Emery and corundum wheels.

Walcott, George D. & Son, Jackson, Michigan.
Shaper for iron working.

Walker, O. S., & Company, Worcester, Massachusetts.
Magnetic chuck; a device for holding work to the chuck by magnetism.

Waltham Watch Tool Company, Springfield, Massachusetts.
Milling machines for metal working.

Warner & Swasey, Cleveland, Ohio.
Machine tools for metal working.

Waterbury Tool Company, Waterbury, Connecticut.
Patent ratchet hand drill.

Watson & Stillman, New York.
Hydraulic presses.

Wells Brothers & Company, Greenfield, Massachusetts.
Screw plates and taps.

Westcott Chuck Company, Oneida, New York.
Chucks for iron working machines.

Western Manufacturing Company, Springfield, Ohio.
Tool holders.

Weston, Thomas A., 38 Park Row, New York.
Hand punches, shears and wrenches.

Whiton, D. E., Machine Company, New London, Conn.
Chucks.

Williams, David, Company, New York.
Publication: The Iron Age.

GROUP V.

ELECTRICITY.

FRANCIS E. DRAKE, DIRECTOR.

CLASS 23.

MACHINES FOR GENERATING AND USING ELECTRICITY.

Advance Packing & Supply Company, Chicago.
Asbestos gum core packing.

American Commercial Rubber Company, Elizabeth, New Jersey.—Electric insulating tape.

American Hard Fiber Company, New York City.
Insulating material.

American Vitrified Conduit Company, New York City.
Underground and interior conduits.

American Woven Wire Brush Company, Peabody, Mass.
Woven wire dynamo brushes.

Anchor Electric Company, Boston, Massachusetts.
Small switches.

Anderson, Albert & J. M., Manufacturing Company, Massachusetts.—Quick-break switches.

Automatic Switch Company, Baltimore, Maryland.
Switch, quick acting.

Bates, D. L., & Brother, Dayton, Ohio.
Electric fans.

Belknap Motor Company, Portland, Maine.
Chapman voltage regulator.

Billings & Spencer Company, The, Hartford, Connecticut.
Switches and fuses.

Bossert Electric Construction Company, Utica, New York.
Erickson outlet insulator.

Bullock Electric Manufacturing Company, Cincinnati, Ohio.
Continuous current dynamos, motors and appliances; motor for direct connection to machine tools; back geared crane motors; controllers.

C. & C. Electric Company, Garwood, New Jersey.
Electric motor.

Central Union Brass Company, St. Louis, Missouri.
Trolley fittings.

Chase-Shawmut Company, Boston, Massachusetts.
Switches and fuses.

Chicago Rawhide Manufacturing Company, Chicago.
Rawhide pinions.

Circular Iron Company, Boston, Massachusetts.
Insulating tube or conduit.

Clark, James, Jr., & Company, Louisville, Kentucky.
Electrically driven tool grinder; electric motor.

Cleveland Electric Company, Cleveland, Ohio.
Automatic time-switch.

Commercial Electric Company, Indianapolis, Indiana.
Electric motor.

Cook Mercantile Trust Company, Philadelphia, Pennsylvania.
Slate for electrical purposes.

Crocker-Wheeler Electric Company, New York City.
Electric motor.

Crouse-Hinds Electric Company, Syracuse, New York.
Special switch for switchboard ammeters.

Crown Woven Wire Brush Company, Salem, Massachusetts.
Woven wire brushes for dynamos.

Cutter Electric and Manufacturing Company, Philadelphia,
Pennsylvania.—Automatic Circuit-breakers.

Dayton Electrical Manufacturing Company, Dayton, Ohio.
Small motors and switches.

Delaware Hard Fibre Company, Wilmington, Delaware.
Insulation for electrical purposes.

Diehl Manufacturing Company, Elizabethport, New Jersey.
Direct connected fan-motors.

Dixon, Joseph, Crucible Company, Jersey City, New Jersey.
Graphite brush for motors and dynamos.

Eck Dynamo & Motor Works, Newark, New Jersey.
Small motors.

Edison Manufacturing Company, Orange, New Jersey.
Motors for fans, batteries and specialties.

Emerson Electric Manufacturing Company, St. Louis, Mo.
Knife switch.

Empire China Works, Brooklyn, New York.
Porcelain insulators.

Eureka Tempered Copper Works, North East, Pennsylvania.
Dynamo brushes, commutators.

Fagan, J. C., Watertown, New York.
Cut-outs and switches.

Falcon Electric Manufacturing Company, New York.
Electric fans.

Falk Manufacturing Company, Milwaukee, Wisconsin.
High voltage switches.

Fisher Electric Manufacturing Company, Detroit, Mich.
Circuit breakers.

Forest City Electrical Company, Cleveland, Ohio.
Commutator bars.

Galvanic Metal Paper Company, New York.
Dynamo brushes.

Garton-Daniels Company, Keokuk, Iowa.
Lightning arresters for railway circuits.

General Equipment Company, Camden, New Jersey.
Automatic circuit breaker.

Hartwig & Miller, Detroit, Michigan.
Boring tool for electric wiring.

Hazard Manufacturing Company, Wilkesbarre, Pennsylvania.
Insulated wire for magnets.

Hobart Electric Manufacturing Company, Troy, Ohio.
Steel dynamos.

Holmes Fibre Graphite Manufacturing Company, 51-55 Wakefield Street, Germantown, Pennsylvania.—Dynamo brushes.

Holtzer-Cabot Electric Company, Brookline, Massachusetts.
Switches and motors.

Insulating Staple Saddle Company, Brockton, Massachusetts.
Insulator.

Iron Clad Resistance Company, Westfield, New Jersey.
Dynamo field rheostat.

Jeffrey Manufacturing Company, The, Columbus, Ohio; 41 Dey St., New York.—Electric and air power coal cutters, drills, electric locomotives. Chain belting-steel cable, elevating, conveying machinery. Elevator buckets, screening machinery, coal crushers and pulverizers.

Jenney Electric Manufacturing Company, Indianapolis. Ind.
Motors.

Johns, H. W., Manufacturing Company, New York.
Non-arcing fuses for electric circuits; mica insulators for electric transmission lines.

K. & W. Company, Pittsfield, Massachusetts.
Dynamo brushes.

Kartavert Manufacturing Company, Wilmington, Delaware.
Flexible fiber in sheets, rods and tubing for insulating.

Kester Electric Manufacturing Company, Chicago.
Fuse wire, solder, etc.

Klein, M., & Sons, Chicago.
Line tools; wire grips.

Lakon Transformer Company, Elkhart, Indiana.
Alternating current transformers.

La Roche & Company, New York.
Circuit breaker.

Locke, Fred M., Victor, New York.
High voltage insulators.

Lorain Steel Company, Lorain, Ohio.
Double railway equipment; electrical railway motors, controllers and apparatus.

Manhattan Electrical Supply Company, New York.
Battery.

Marshall, William, New York.
Electrical condensers.

Medbury, Warren, Company, Sand Hill, New York.
Inductor; alternator motors.

Milwaukee Electric Company, Milwaukee, Wisconsin.
Electric motor.

Munsell, Eugene, & Company, New York.
Micanite insulation for dynamos and motors.

National Conduit & Cable Company, New York.
Cement lined, metal conduits for electric wires.

New Process Rawhide Company, Syracuse, New York.
Rawhide pinions.

New York & Ohio Company, Warren, Ohio.
Alternating current stationary transformers.

New York Insulated Wire Company, New York.
Insulating tape.

Ohio Electrical Specialty Company, Troy, Ohio.
Woven wire dynamo brushes.

Okonite Company, New York.
Insulating tape.

Onondaga Dynamo Company, Syracuse, New York.
Enclosed motors.

Otis Elevator Company, New York.—Otis Elevator Company,
Ltd., London; Otis Elevator Company, Ltd., 25 Rue de la Paix. Paris; Deutsche Otis-Gesellschaft, Berlin.—Electrically operated passenger elevators; an escalator, electrically driven.

Patrick, Carter & Wilkins, Philadelphia, Pennsylvania.
Switches, sockets.

Partridge Carbon Works, Sandusky, Ohio.
Carbon brushes for motors and dynamos. Self lubricating dynamo brush.

Phoenix Battery Manufacturing Company, St. Louis, Mo.
Carbon brushes and primary batteries.

Philadelphia Electrical & Manufacturing Company, Philadelphia, Pennsylvania.—Quick-break electric switches.

Pittsburg Transformer Company, Pittsburg, Pennsylvania.
Transformers.

Robbins & Meyers Company, Springfield, Ohio.
Fan motors.

Royal Electric Company, Peoria, Illinois.
Dynamo and transformer.

Shaw Electric Crane Company, The, Muskegon, Michigan.
Electric traveling crane and appurtenances.

Silex Insulation Company, New York.
Insulating material.

Sills, W. H., Mica Company, Chicago.
Mica for electrical purposes.

Speer Carbon Company, St. Marys, Pennsylvania.
Carbon brushes for motors and dynamos.

Sprague Electric Company, New York.
Armored conduits.

Standard Paint Company, New York.
Insulating tape.

Steward, D. M., Manufacturing Company, Chattanooga, Tennessee.—Lava insulators.

Stow Manufacturing Company, Binghamton, New York.
Multispeed electric drill. Center grinder for lathe.

Thomas, R., & Sons Company, East Liverpool, Ohio.
High voltage insulators.

Thresher Electric Company, Dayton, Ohio.
Motors.

Union Porcelain Works, Brooklyn, New York.
Hard porcelain insulators.

Van Wagoner & Williams Hardware Company, Cleveland, Ohio.—Commutator bars.

Vulcanized Fibre Company, Wilmington, Delaware.
Vulcanized fiber for insulating purposes.

Warren Electric & Specialty Company, Warren, Ohio.
Transformers.

Wagner Electric Manufacturing Company, St. Louis, Mo.
Alternating current motors, converters and accessories.

Western Electric Company, Chicago, Illinois.
Various apparatus for generating, transmitting and using direct and alternating current. Various applications to mechanical purposes. Safety appliances, etc.

Ward Leonard Electric Company, Bronxville, New York.
Field regulating rheostats; motor starting rheostats; motor speed regulating rheostats; automatic motor controllers; theater dimmers; ventilating fan controllers; automatic circuit breakers; outlet boxes (many types) and many special forms of rheostats for various uses.

Westinghouse Electric & Manufacturing Company, Pittsburg,
Pennsylvania.—Electric motors.

Wirt, Charles, & Company, Philadelphia, Pennsylvania.
Dynamo brushes and rheostats.

Zindars & Hunt, New York City.
Switches and meters.

CLASS 24.

ELECTRO-CHEMISTRY.

Abbott Electric & Manufacturing Company, Cleveland, Ohio.
Electric cigar lighter.

Acheson, E. C., Niagara Falls, New York.
Primary battery containing graphitized carbon element; electrodes for electrolytic work.

American Hard Rubber Company, New York.
Battery cells.

Edison Manufacturing Company, New York.
Battery cells.

Edison, Thomas A., Jr., New York.
Standard battery of 8 cells.

Electric Gas-Lighting Company, Boston, Massachusetts.
Samson battery, electric gas-lighters.

Federal Battery Company, Boston, Massachusetts.
Substitute for sal-ammoniac for carbon batteries.

Gordon Battery Company, New York.
Fans, water rheostats, faradic coils, batteries.

Gould Storage Battery Company, Depew, New York.
Storage cells.

Leclanche Battery Company, New York.
Batteries.

Manhattan Electrical Supply Company, New York.
Battery.

New Excelsior Dry Battery Company, 661 Hudson St., New York.—Non-polarizing dry battery cells.

Non-Polarizing Dry Battery Company, New York.
Non-polarizing dry battery cells.

Roliance Lamp Electric Company, New York.
Electric safety lamp and storage battery.

Roach, William, Manufacturing Company, New York City.—Standard dry batteries.

United States Battery Company, New York.
Small storage battery cells.

Voltamp Electric Manufacturing Company, Baltimore, Maryland.—Dry batteries.

CLASS 25.

ELECTRIC LIGHTING.

Adams-Bagnall Electric Company, The, Cleveland, Ohio.
Arc lamps.

Almond, Thomas R., Brooklyn, New York.
Electric desk lamps.

American Electric Motor Company, Philadelphia, Pa.
Two electric motors.

American Electric Specialty Company, New York.
Direct reading ohmeters.

American Endoscopic Company, Providence, Rhode Island.
Miniature incandescent lamps.

American Hard Rubber Company, New York.
Electrical hard rubber goods.

American Miniature & Decorative Lamp Company, New York.
Small incandescent lamps.

Anderson, H., Peekskill, New York.
Hand magnet winder.

Baker & Fox, Brooklyn, New York.
Focusing arc lamps.

Barron, James S., & Company, New York.
Electric pocket searchlight.

Belden-Larwill Electric & Manufacturing Company, Fort Wayne, Indiana.—Arc lamps for alternating and continuous currents.

Bossert Electric Construction Company, Utica, New York.
Outlet insulator.

Bristol Company, Waterbury, Connecticut.
Recording volt meters and ammeters.

Bryant Electric Company, Bridgeport, Connecticut.
Incandescent lamp sockets and switches.

Buckeye Electric Company, Cleveland, Ohio.
Incandescent lamps.

Chicago Edison Company, Chicago, Illinois.
System of records and accounts for central stations.

Chicago Fuse Wire & Manufacturing Company, Chicago.
Fuse wire and fuse links.

Colonial Electric Company, Youngstown, Ohio.
Incandescent lamps.

Columbia Incandescent Lamp Company, St. Louis, Missouri.
Incandescent lamps.

Creaghead Engineering Company, Cincinnati, Ohio.
Arc lamp specialties and trolley line materials.

Dale Electric Company, New York.
Electric sign letter.

Davis Incandescent Lamp Company, Syracuse, New York.
Incandescent lamps.

Devere Electric Company, Cincinnati, Ohio.
Electic lighting installation.

Edwards & Company, New York.
Electric wiring accessories.

Electric Gas Lighting Company, Boston, Massachusetts.
Samson battery electrical gas lighter.

Electric Motor & Equipment Company, Newark, New Jersey.
Portable photometer with spring rotator.

Fairies Manufacturing Company, Decatur, Illinois.
Brackets, lamp fixtures, shades.

Fisher Electric Manufacturing Company, Detroit, Michigan.
Circuit-breakers.

Frink, I. P., New York.
Electric fixtures and reflectors.

General Electric Company, Schenectady, New York.
Special installation; illustrations, models and methods; views of central and isolated stations, and special apparatus; models made to scale of factories at Schenectady, N. Y.; Lynn, Mass.; Harrison, N. J.; photographs of electric installations and interiors of warships.
Paris, 1899, grand prix, gold medal; Chicago, 1893, medal.

Gilmore Electric Company, South Boston, Massachusetts.
Incandescent lamps and ceiling rosettes.

Goehst, Henry, Chicago, Illinois.
Incandescent lamp shades.

Hardy Lamp Company, Pittsfield, Massachusetts.
Incandescent lamps.

Hart & Hageman Manufacturing Company, Hartford, Conn.
Snap switches.

Hart Manufacturing Company, Hartford, Connecticut.
Switches, porcelain rosettes.

Hartwig & Miller, Detroit, Michigan.
Boring tool for electric wiring.

Hecla Iron Works, Brooklyn, New York.
Special ornamental arc lamp posts with accompanying post for use in connecting with railings.

Helios-Upton Company, Peabody, Massachusetts.
Various types of arc lamps for use on continuous and alternating current; carbons for same; rheostats and special converters for same.

Holophane Glass Company, New York.
Prism glass globes and shades for artificial lighting. Holophane patents.

Huebel & Manger, Brooklyn, New York.
Electric door bells.

Incandescent Electric Light Manipulator Company, The,
Boston, Massachusetts.—Incandescent bulb renewer and cleaner.

Inglis, William, Wire & Iron Works, Detroit, Michigan.
Wire lamp guards for incandescent lamps.

Jewell Electric Instrument Company, Chicago, Illinois.
Volt and milliampere meters.

Kinsman, F. E., New York City.
Desk lamps.

Lea Manufacturing Company, Elwood, Indiana.
Arc lamps.

Lynn Incandescent Lamp Company, Lynn, Massachusetts.
Incandescent lamps.

McLeod, Ward & Company, New York.
Desk lamps.

Malcolmson, Charles T., Chicago, Illinois.
Design for electric arc lamp post and accessories.

Meyrowitz, E. B., New York.
Special lamp socket and current connector.

Morris Arc Lamp Company, Chester, Pennsylvania.
Enclosed arc lamps.

National Carbon Company, Cleveland, Ohio.
Arc light carbons.

New York & Ohio Company, Warren, Ohio.
Incandescent lamps.

Onota Manufacturing Company, Pittsfield, Massachusetts.
Electric hair curlers.

Orient Electric Company, Youngstown, Ohio.
Incandescent lamps.

Oxley & Enos, 35th St. and 5th av., New York City.
Special electrical chandeliers.

Pacific Electric Company, La Crosse, Wisconsin.
Incandescent desk lamps.

Paiste, H. T., Company, Philadelphia, Pennsylvania.
Porcelain sockets, cut-outs, switches, etc.

Pass & Seymour, Syracuse, New York.
Porcelain cut-outs and lamp sockets.

Perkins Switch Manufacturing Company.
Rosette and switch.

Phelps, William T., Elmwood, Illinois.
Incandescent lamps and sockets.

Robbins & Myers Company, Springfield, Ohio.
Electric fans.

Schiff, Jordon & Company, New York City.
Carbons for electrical purposes.

Solar Carbon & Manufacturing Company, Pittsburg, Pa.
Carbons.

Speer Carbon Company, St. Marys, Pennsylvania.
Carbons for arc lamps.

Splitdorf, C. F., New York.
Spark coils.

Stanley Instrument Company, Great Barrington, Mass.
Meters.

Sterling Arc Lamp Company, New York.
Arc lamps.

Stewart, Frank H., & Company, Philadelphia, Pennsylvania.
Handle and adjuster for drop lamp cord.

Syracuse Electric Instrument Company, Syracuse, New York.
Voltmeters.

Tiffany Glass & Decorating Company, 333 Fourth Av., New York.—Globes, chimneys and shades for electric lighting.

Toerring, C. J., Company, Philadelphia, Pennsylvania.
Arc lamps for continuous and alternating currents.

United States Carbon Company, The, Cleveland, Ohio.
Cored carbons for arc lamps.

Vought, M. I., La Crosse, Wisconsin.
Two ball adjuster for incandescent lamps.

Washington Carbon Company, Washington, Pennsylvania.
Carbons for arc lamps.

West, H. S., Chicago, Illinois.
Insulated ceiling plate for arc lamps.

Western Electric Company, Chicago.
Arc lamps for both continuous and alternating current; incandescent lamps; special applications.

White, O. C., Company, The, Worcester, Massachusetts.
Adjustable electric light fixtures.

CLASS 26.

TELEGRAPHY AND TELEPHONY.

American Electric Telephone Company, Chicago, Illinois.
Universal and express switchboards for telephones.

American Hard Rubber Company, New York.
Telephone receivers.

American Steel & Wire Company, Worcester, Massachusetts.
Samples of telephone and telegraph electrical and power wires and cables.

American Wireless Telegraph Company, Milwaukee, Wis.
System of wireless telegraphy.

Anderson, H., Peekskill, New York.
Hand magnet winder.

Ansonia Brass & Copper Company, New York.
Insulated wire.

Central Telephone & Electric Company, St. Louis, Missouri.
Telephone.

Chicago Insulated Wire Company, Chicago.
Insulated wire.

Connecticut Telephone & Electric Company, Meriden, Conn.
Telephone set.

Crefeld Electric Works, Providence, Rhode Island.
Insulated wire.

Crehore, A. C., & Squier, George O., Cleveland, Ohio.
Sine wave methods of telegraphing, both land and submarine, including very rapid transmission for land lines.

Department of the Post Office, U. S. A., Washington, D. C.
A collection of models to illustrate the transportation of the United States mail on land and water.

Dicke Tool Company, Downer's Grove, Illinois.
Workmen's tools for aerial telephone, telegraph, and electric light wires.

Driver-Harris Wire Company, New York.
Fine wire in all metals for electrical purposes.

Eureka Electric Company, Chicago.
Telephone and switchboard.

Farr Telephone & Construction Supply Company, Chicago.
Telephones.

Fisk, H. M., Manufacturing Company, Wheaton, Illinois.
Telephones.

Foot, Pierson & Company, New York.
Combination telephone, lightning arresters.

Gordon, A. Y., Massillon, Ohio.
Adjustable telephone transmitter arm.

Huebel & Manger Manufacturing Company, Brooklyn, New York.—Electric bells.

Illinois Insulated Wire Company, Sycamore, Illinois.
Insulated wire.

India-Rubber & Gutta-Percha Insulation Company, Yonkers, New York.—Insulated wire.

Indiana Rubber and Insulated Wire Company, Jonesboro, Indiana.—Insulated wire.

Insulating Saddle Staple Company, Brockton, Massachusetts.
Insulated staples.

International Cable Directory Company, 30 Broad Street, New York.—Systematic code of telegraphing.

Kokomo Telephone Electric & Manufacturing Company, Kokomo, Indiana.—Telephone.

Klein, Mathias, & Son, Chicago.
Tools and appliances for installing overhead and submarine conductors.

Kusel Telephone & Electric Company, St. Louis, Missouri.
Telephone.

McDermid Manufacturing Company, Chicago.
Silk-covered magnet wire.

Mianus Electric Company, Mianus, Connecticut.
Telephone.

National Automatic Telephone Company, Bloomington, Ill.
Telephone system; automatic inter-communicating telephone exchange and apparatus.

National Conduit & Cable Company, New York.
Overhead conductors, telegraph and telephone cables.

National India Rubber Company, Bristol, Rhode Island.
Wires and cables.

New York Insulated Wire Company, New York.
Insulated wire.

North Electric Company, Cleveland, Ohio.
Telephones.

Okonite Company, New York.
Insulated wire.

Ostrander, W. R., & Company, Brooklyn, New York.
Annunciators and house goods.

Pacific Electric Company, La Crosse, Wisconsin.
Desk lamps.

Patrick, Carter & Wilkins, Philadelphia, Pennsylvania.
House goods.

Pennsylvania Electric Company, Marietta, Pennsylvania.
Telephones.

Peru Electric Manufacturing Company, Peru, Indiana.
Porcelain insulators.

Pettingill Andrews Company, Boston, Massachusetts.
Wires.

Phillip Insulated Wire Company, Pawtucket, Rhode Island.
Insulated wire.

Pittsburg Roduction Company, Pittsburg, Pennsylvania.
Aluminum wire and cable, bare and insulated.

Rawson Electric Company, Elyria, Ohio.
Telephone.

Roebling's, John A., Sons Company, Trenton, New Jersey.
Bare and insulated wire and underground electrical cables.

Rowland Multiplex Telegraphic Company, 100 S. Gay St., Baltimore, Maryland—Multiplex synchronous telegraphy; an octoplex, printing telegraph, showing both ends of line, with four transmitters and four receivers at each end. A detached single outfit of transmitters and receivers at each end of line. Other multiplex forms of telegraphy. Devices to show operation of synchronism; maps, diagrams, photographs.

Safety Insulated Wire and Cable Company, 223-239 W. 28th St., New York.—Insulated wire.

Simplex Electric Company, Boston, Massachusetts.
Insulated wires and cables.

Simplex Interior Telephone Company, Cincinnati, Ohio.
Interior telephones.

Sprague Electric Company, New York City.
Armored conduits.

Standard Telephone & Electric Company, Madison, Wis.
Standard wall telephone set.

Stromberg, Carlson Telephone Manufacturing Company, Chicago.—Telephone.

Telephone Manufacturing Company, Sumter, South Carolina.
Telephones.

Varley Duplex Magnet Company, Jersey City, New Jersey.
Special magnets and devices for telephone and telegraph instruments; special system of manufacture.

Viaduct Manufacturing Company, Baltimore, Maryland.
Portable telephone set.

Western Electric Company, Chicago.
Apparatus and instruments for telephone and telegraph; telegraph relays, sounders, etc. Telephone switchboards, instruments and appliances. Telegraph and telephone cables, both overhead and submarine.

Western Telephone Construction Company, 250 S. Clinton St., Chicago.—Telephones and apparatus for telephone exchanges, switchboards, annunciators, connectors, etc.

Williams-Abbott Electric Company, Cleveland, Ohio.
Magnets and telephone transmitters.

Williams Electric Company, Cleveland, Ohio.
Telephones.

CLASS 27.

VARIOUS APPLICATIONS OF ELECTRICITY.

Abbott Electric & Manufacturing Company, Cleveland, Ohio.
Electric cigar lighter.

American Electric Heating Corporation, Cambridgeport, Massachusetts.—Electric heating goods; enamel rheostats.

American Electrical Heater Company, Detroit, Michigan.
Electric heaters and soldering irons.

American Electrical Specialty Company, New York.
Electrical test instruments.

Automatic Electric Clock Company, Chicago, Illinois.
Electric clocks.

Bristol Company, The, Waterbury, Connecticut.
Recording volt and ampere meters.

Consolidated Car Heating Company, Albany, New York.
Electric car heaters.

Dale Electric Company, New York.
Electric fixtures.

Eastern Electric Cable Company, Boston, Massachusetts.
Insulated wire and cable.

Eldridge Electric Manufacturing Company, Springfield, Mass.
Voltmeter.

General Incandescent-Arc Light Company, New York.
Electric fan motors.

Gold Car Heating Company, New York.
Apparatus for heating by electricity.

Gordon Battery Company, New York.
Electro-medical apparatus.

Gray, Elisha, and Mundy, Arthur J., Newtonville, Mass.
Indicators and recording apparatus for various natural phenomena.

Hadaway Electric Heating & Engineering Company, New York.—Small electric stoves and heaters.

Herzog Teleseme Company, New York.—Variable Signalling
Apparatus for hotel rooms; electro-chemical annunciators; telephone signals, adjuncts and switchboards; fairy annunciators. Specialties in "Latent" or "Non-Interference" signals for hotel, fortification, naval, ship, mining, railway, coast guard, postal, telephone and telegraph installations.

Iron Clad Resistance Company, Westfield, New Jersey.
Field rheostats.

Johns, H. W., Manufacturing Company, New York.
Electric heaters.

Jewell Electrical Instrument Company, Chicago, Illinois.
Portable voltmeter for direct current readings.

McCay Engineering Company, Baltimore, Maryland.
Electric heating apparatus.

McGraw Publishing Company, 26 Cortlandt St., New York.
Bound volumes and current numbers of electrical periodicals.

Marshall, William, New York.
Electrical condensers.

Meyrowitz, E. B., New York.
Electro-magnet for abstracting metallic substances from the human eye.

Montauk Multiphase Cable Company, 100 Broadway, New York.—Interior electric fire detective cables.

Norton Electrical Instrument Company, Manchester, Conn.
Electrical measuring instruments.

Onota Manufacturing Company, Pittsfield, Massachusetts.
Electric hair curlers.

Queen & Company, Philadelphia, Pennsylvania.
Scientific apparatus; measuring instruments, voltmeters, ammeters, various standards for alternating and continuous currents.

Ritchie, E. S., & Sons, Brookline, Massachusetts.
Induction coil for X-ray.

Sempire Clock Company, St. Louis, Missouri.
Electrical clocks.

Stanley Instrument Company, Great Barrington, Mass.
Electrical instruments.

United Electric Heating Company, Detroit, Michigan.
Electric heating apparatus.

Wagner Electric Manufacturing Company, St. Louis, Mo.
Electric measuring instruments.

Weston Electrical Instrument Company, Newark, New Jer- sey.—Scientific apparatus; measuring instruments, voltmeters, ammeters, various standards for alternating and continuous currents.

GROUP VI.

CIVIL ENGINEERING—TRANSPORTATION.

WILLARD A. SMITH, DIRECTOR.

CLASS 28.

MATERIALS, EQUIPMENT AND PROCESSES RELATING TO CIVIL ENGINEERING.

American Car Sprinkler Company, Worcester, Massachusetts.—Photographs of street sprinkling machinery.

American Hoist & Derrick Company, St. Paul, Minnesota.—Photograph of hoisting machine.

American Pneumatic Service Company, Boston, Massachusetts.—A system of pneumatic carriers for post and package delivery.

Barr, J. Carrol, Morgantown, West Virginia.
Photographs of engineering work.

Bowers, A. B., San Francisco, California.
Model of a hydraulic dredge.

Bradley Pulverizer Company, Boston, Massachusetts.
Photographs of cement machinery.

Broadway Chambers, The, New York.
A collective exhibit illustrating the materials and construction of an American steel office building in New York City.

CONTRIBUTORS.

Bradley & Currier Company, New York.—Interior woodwork.

Brooklyn Electric Equipment Company, Brooklyn, New York.—Electric lighting.

Bullock Electric Company, Cincinnati, Ohio.—Electric generators.

Byrne, Thomas J., New York City.—Plumbing.

Carnegie Steel Company, Pittsburg, Pennsylvania.—Steel frame.

Clonbrock Steam Boiler Company, Brooklyn, New York.—Boilers and fittings.

Empire City Marble Company, New York.—Marble.

Fuller, George A., Company, New York City.—Builders' models.

Gilbert, Charles, New York City and St. Paul, Minnesota.—Architect.

Hecla Iron Works, Brooklyn, New York.—Iron supplies.

Otis Elevator Company, New York City.—Elevators.

Payne Engineering Company, New York.—Engines.

Peirce, John, New York City.—Granite.

Perth Amboy Terra Cotta Company, Perth Amboy, New Jersey.—Terra Cotta.

Pittsburg Terra Cotta Lumber Company, Pittsburg, Pennsylvania.—Fire proofing.

Purdy & Henderson, New York City.—Consulting engineers.

Russel & Irwin Manufacturing Company, New York—Hardware.

Taylor, Henry, Lumber Company, Lafayette, Indiana.—Lumber construction.

Wells & Newton Company, New York City.—Steam heating.

Bucyrus Company, The, South Milwaukee, Wisconsin.
Model of dredging machine, and photographs.

Buffalo Pitts Company, Buffalo, New York.
Photographs of civil engineering machinery.

Case Manufacturing Company, Columbus, Ohio.
Photographs of traveling cranes.

Cleveland Crane & Car Company, Cleveland, Ohio.
Photographs of traveling cranes.

Clulow, P. T., Schenectady, New York.
Photographs of engineering machinery.

Davis, Charles Henry, New York.
An album of photographs of engineering work.

Deering Harvester Company, Chicago.
Working model of an American factory plant, showing the arrangements for handling the materials by trains of cars and vessels.

Diamond State Steel Company, Wilmington, Delaware.
Photographs illustrating construction of steel factory.

Edson Manufacturing Company, Boston, Massachusetts.
Photographs of engineering machinery.

Flory, S., Manufacturing Company, Bangor, Maine.
Photographs of carrying machinery.

Gillette-Herzog Manufacturing Company, Minneapolis, Minnesota.—Photographs of steel construction.

Good Roads Machinery Company, Kennett Square, New York.—Photographs of road machinery.

Graves, Edwin D., Hartford, Connecticut.
Photographs of engineering work.

Henny, D. C., San Francisco, California.
Photographs of irrigation work.

Hill, George, New York.
Photographs of fireproof warehouse construction.

Hutton, William R., New York City.
Photographs of engineering construction.

Ingersoll-Sergeant Drill Company, 26 Cortlandt Street, New York.—Model drills, quarrying machinery, compressors, etc., used on the Chicago drainage canal.

International Association for Testing Materials, Philadephia, Pennsylvania.—Photographs of testing machinery, etc.

Iroquois Iron Works, Buffalo, New York.
Photographs of civil engineering machinery.

Jeffrey Manufacturing Company, Columbus, Ohio.
Photographs of conveying machinery.

Lathbury & Spackman, Philadelphia, Pennsylvania.
Photographs of Portland cement manufactories.

Link Belt Engineering Company, Nicetown, Philadelphia, Pennsylvania.—Photographs of conveying machinery.

Linton, Harvey, Altoona, Pennsylvania.
Photographs of engineering work.

McKim, Alexander Rice, New York.
Photographs of engineering construction.

Marion Steam Shovel Company, Marion, Ohio.
Photographs of dredging and excavating machinery.

Mississippi River Commission, St. Louis, Missouri.—Models of graders and dredges.

Pencoyd Iron Works, Philadelphia, Pennsylvania.
A collection of parts of bridges and viaducts of steel, to illustrate American bridge building.

Phosphoria Phosphate Company, Ltd., St. Augustine, Florida.—Photographs of pebble phosphate plant.

Rand Drill Company, 100 Broadway, New York.
Rock drills and machinery used on the Chicago drainage canal.

Reed, D. A., Duluth, Minnesota.
Photographs of engineering work.

St. Bernard Coal Company, Earlington, Kentucky.
Photographs of mining and conveying machinery.

Standard Paint Company, New York.
Roofing materials.

Steel Cable Engineering Company, New York City.
Photographs of conveying machinery.

Thackray, George E., Johnstown, Pennsylvania.
Photographs illustrating modern steel building construction.

Trenton Iron Company, The, Chicago.
Photographs illustrating the preparation of engineering materials, wire, wire-rope, iron, etc.

Wilkins, George S., Chicago.
Photographs of engineering machinery and materials.

Wood, R. D., & Company, Philadelphia, Pennsylvania.
Photographs of bridge construction.

CLASS 29.

MODELS, PLANS, AND DESIGNS FOR PUBLIC WORKS.

Abbot, Frederic V., U. S. A., St. Paul, Minnesota.
Photographs from United States engineer office.

American Pipe Manufacturing Company, Philadelphia, Pennsylvania.—Photographs of water works construction, etc.

Baldwin, D. H., & Company, Cincinnati, Ohio.
Model of modern United States piano factory, demonstrating engineering construction as applied to industrial productions.

Belknap, W. E., New York City.
Photographs of harbor work, etc.

Berlin Iron Bridge Company, The, East Berlin, Connecticut.—Designs and drawings of steel construction in the United States.

Board of Park Commissioners, Cambridge, Massachusetts.
Reports.

Board of Street Commissioners, Cambridge, Massachusetts.
Reports.

Boller, Alfred P., New York.
Photographs of bridge construction.

Boston Terminal Company, Boston, Massachusetts.
Maps, plans, photographs, etc., showing the terminal facilities at the City of Boston.

Boston Transit Commission, Boston, Massachusetts.
Maps, plans, photographs and models showing the building of the subway for the use of street railways.

Broadway Chambers, The, New York.
A collective exhibit illustrating the materials and construction of an American steel office building in New York City.

CONTRIBUTORS.

Bradley & Currier Company, New York.—Interior woodwork.
Brooklyn Electric Equipment Company, Brooklyn.—Electric lighting.
Bullock Electric Company, Cincinnati, Ohio.—Electric generators.
Byrne, Thomas J., New York.—Plumbing.
Carnegie Steel Company, Pittsburg, Pennsylvania.—Steel frame.
Clonbrock Steam Boiler Company, Brooklyn.—Boilers and fittings.
Empire City Marble Company, New York.—Marble.
Fuller, George A., Company, New York.—Builders' models.
Gilbert, Charles, New York and St. Paul, Minnesota.—Architect.
Hecla Iron Works, Brooklyn, New York.—Iron supplies.
Otis Elevator Company, New York.—Elevators.
Payne Engineering Company, New York.—Engines.
Peirce, John, New York.—Granite.

Perth Amboy Terra Cotta Company, Perth Amboy, New Jersey.—Terra cotta.

Pittsburg Terra Cotta Lumber Company, Pittsburg, Pennsylvania.—Fire proofing.

Purdy & Henderson, New York.—Consulting engineers.

Russel & Irwin Manufacturing Company, New York.—Hardware.

Taylor, Henry, Lumber Company, Lafayette, Indiana.—Lumber construction.

Wells & Newton Company, New York.—Steam heating.

Brown, William M., Jr., Boston, Massachusetts.
Photographs of sewerage work.

Caldwell, W. E., & Company, Louisville, Kentucky.
Photograph of water tank.

California Paris Exposition Commission, San Francisco, California.—Geographic charts, to be exhibited with the relief map of the State.

Cambria Steel Company, Johnstown, Pennsylvania.
Painting of their Johnstown works.

Chicago Sanitary District, Security Building, Chicago.
Three models of the Chicago drainage canal, showing the full canal, the controlling works, and the heaviest rock cutting.

Coolidge, C. A., & Morin-Goustiaux, G., Chicago, Illinois, and Paris, France.—Designs for United States National Pavilion.

Cummings, Robert A., Owensboro, Kentucky.
Photographs of river bank protection, and of grain elevators Thetis and Isis.

Department of Public Works, Philadelphia, Pennsylvania.
Plans, drawings, and photographs, illustrating the work of the Bureau of Surveys of the City of Philadelphia.

Department of Transportation, U. S. Commission to Paris, Chicago.—Publications, proceedings and reports relating to civil engineering and public works.

Dun, James, Chief Engineer, Atchison, Topeka & Santa Fe Railway Company, Topeka, Kansas.—Photographs of bridge construction and river improvement.

Engineering News Publishing Company, New York.
Publication: Engineering News and books on engineering subjects.

Gemmell, R. C., State Engineer, Salt Lake City, Utah.
Photographs of public works.

Grau, Bernard R., Superintendent, Library Buildings and Grounds, Washington, D. C.—Photographs of engineering construction, etc.

Gray, Samuel M., Providence, Rhode Island.
Photographs of public works.

Haupt, Louis M., 107 North 35th Street, Philadelphia, Pennsylvania.—Three models of the alluvial bar at Aransas Pass, Texas, on the Gulf coast.

Hermany, Charles, Louisville, Kentucky.
Photographs of water works construction.

Hickley, H. V., Muskogee, Indian Territory.
Photographs of bridge construction.

Hoff, Olaf, Minneapolis, Minnesota.
Photographs of engineering structures.

Illinois Central Railroad Company, Chicago.
A model of a ballast floor trestle.

Johnson, Wallace C., Niagara Falls, New York.
Photographs of water power and transmission construction.

Jorgensen, Edward C. F., Chicago, Illinois.
Drawings of exterior design of United States Machinery building at Vincennes.

Kansas City & Memphis Railway & Bridge Company, Kansas City, Missouri.—Model of the Memphis bridge, with photographs.

Kenly, William L., Chief Engineer, Water Department, Baltimore, Maryland.—Photographs of public works.

King Bridge Company, Cleveland, Ohio.
Photographs of bridge construction.

Kuichling, Emil, Rochester, New York.
Photographs of water works construction.

Lawrence Sewerage Board, Lawrence, Massachusetts.
Model of the Lawrence sewerage plant, with plans and photographs.

Leavitt, Charles W., New York.
Photographs of public works.

Llewellyn, Frank J., Minneapolis, Minnesota.
Photographs of engineering structures.

Long Island Railroad Company, New York City.
Maps, photographs, and albums of the railroad, showing the plans of the line, and main engineering features.

Loweth, Charles F., C.E., St. Paul, Minnesota.
Photographs of engineering construction.

McGuire, James C., New York.
Photographs of engineering construction.

Massachusetts, Commonwealth of, Boston, Massachusetts.
A map of the Commonwealth, showing the steam railroad and street railway lines.

Metropolitan Park Board, Boston, Massachusetts.
Maps, plans, photographs, and reports.

Metropolitan Sewerage Board, Boston, Massachusetts.
Maps, plans, photographs, and reports.

Metropolitan Water Board, Boston, Massachusetts.
Maps, plans, photographs, and reports.

Mississippi River Commission, U. S. A., St. Louis, Missouri.
Models, relief maps, plans, photographs, etc., illustrating river improvement and apparatus used for that purpose.

Missouri Valley Bridge and Iron Works, Leavenworth, Kansas.—Photographs of steel structures.

Modjeski, Ralph, Chicago.
Photographs of the Rock Island Bridge.

Munster, A., City Engineer, St. Paul, Minnesota.
Photographs of bridge construction.

New York, City of.
Topographical maps of New York City in 1700, 1800 and 1900. A relief map of the city in 1776.

Ockerson, J. A., 1119 Fullerton Building, St. Louis, Missouri.
River improvement, mapping machine, survey marks, and targets.

Ostrom, John N., Pittsburg, Pennsylvania.
Photographs of bridge construction.

Phoenix Bridge Company, Phoenixville, Pennsylvania.
Photographs of bridge construction.

Pitt & Scott, 39 Broadway, New York.
Models, plans, maps of transportation of merchandise.

Roebling's, John A., Sons Company.
Model of Brooklyn suspension bridge.

San Francisco, City of, California.
Maps of the city in 1837, 1838, 1849, and 1899.

Smith & Wesson, Springfield, Massachusetts.
Colored drawings of shooting gallery.

Sonne, Otto, Boston, Massachusetts.
Photographs of a profile taking machine.

Standard Electric Company of California, San Francisco.
Relief map illustrating power transmission.

State Board of Health, Boston, Massachusetts.
Plans, photographs, reports, etc.

Thacher, Edwin, Paterson, New Jersey.
Photographs of river bridge construction.

United States Express Company, 49 Broadway, New York.
Appliances pertaining to the transportation and delivery of express material.

Vickers, Thomas McE., Syracuse, New York.
Photographs of water works.

Warren City Boiler Works, Warren, Ohio.
Photographs of water tanks.

West Gallatin Irrigation Company of Montana, Manhattan, Montana.—Photographs of engineering work.

Wilkins, George S., Chicago.
Photographs of public works.

Wrought Iron Bridge Company, Canton, Ohio.
Photographs of bridge construction.

Youngstown Bridge Company, Youngstown, Ohio.
Photographs of bridge construction, etc.

CLASS 30.

CARRIAGES AND WHEELWRIGHTS' WORK—AUTOMOBILES AND CYCLES.

American Electric Vehicle Company, 1545 Michigan Ave., Chicago.—Various types of automobiles.

American Motor Company, 32 Broadway, New York.
Automobiles.

American Roller Bearing Company, Boston, Massachusetts.
Automobile bearings and automobiles.

American Saddle Company, Elyria, Ohio.
Bicycle saddles, tool bags, etc.

Ball and Pedal Factory, Cleveland, Ohio.
Bicycle pedals, steel balls, stampings, etc.

Buffalo Factory, American Bicycle Company, Buffalo, New York.—Envoy and Fleetwing bicycles.

Chain Factory, American Bicycle Company, Indianapolis, Indiana.—Bicycle chains.

Cleveland Axle Manufacturing Company, Canton, Ohio.
Carriage and wagon axles.

Cleveland Factory, American Bicycle Company, Thomson-ville, Connecticut.—Cleveland chain and chainless bicycles.

Cleveland Machine Screw Company, Cleveland, Ohio.
Automobiles and automobile supplies.

Columbia and Electric Vehicle Company, Hartford, Connecti-cut.—Hart. O. Berg, 54 Avenue Montaigne, Paris, Director for Europe.—Electric automobile vehicles, petroleum automobile vehicles; station equipment and apparatus for charging and transferring the storage batteries of electric automobiles.

Columbia Factory, American Bicycle Company, Hartford, Connecticut.—Columbia chainless and chain and Hartford bicycles.

Columbus Buggy Company, Columbus, Ohio.
Light and heavy vehicles, for business or pleasure.

Columbus Factory, American Bicycle Company, Columbus, Ohio.—Columbus bicycles for jobbing trade.

Consolidated Rubber Tire Company, 40 Wall Street, New York.—Rubber tire wheels and wheels with roller bearing axles.

Crawford Factory, American Bicycle Company, Hagerstown, Maryland.—Crawford bicycles.

Crescent Factory, American Bicycle Company, Chicago. Crescent chainless and chain bicycles.

Electric Vehicle Company, 100 Broadway, New York. Hart O. Berg, 54 Avenue Montaigne, Paris, Director for Europe.— Automobile vehicles.

Fay Factory, American Bicycle Company, Elyria, Ohio. Fay juvenile bicycles.

Featherstone Factory, American Bicycle Company, Chicago. Featherstone bicycles.

Freeport Factory, American Bicycle Company, Freeport, Illinois.—Phœnix bicycles.

Geneva Factory, American Bicycle Company, Geneva, Ohio. Geneva bicycles for jobbing trade.

Grand Rapids Cycle Company, Grand Rapids, Michigan. Clipper chainless and chain bicycles.

Imperial Factory, American Bicycle Company, Chicago. Imperial bicycles.

Lamb Factory, American Bicycle Company, Chicopee Falls, Massachusetts.—Spalding chainless and chain bicycles.

Locomobile Company of America, 11 Broadway, New York City.—Steam automobiles.

Milwaukee Factory ,American Bicycle Company, N. Milwau- kee, Wisconsin.—Meiselbach, Famous, and Carnival bicycles.

Monarch Factory, American Bicycle Company, Chicago. Monarch chainless and chain bicycles, Waverly chain bicycles.

North Buffalo Factory, American Bicycle Company, North Buffalo, New York.—Niagara bicycles.

Nyack Factory, American Bicycle Company, Nyack, New York.—Nyack bicycles.

Overman Wheel Company, Chicopee Falls, Massachusetts.
Automobiles and accessories.

Plymouth Factory, American Bicycle Company, Plymouth, Indiana.—Bicycle wood rims and guards, etc.

Rambler Factory, American Bicycle Company, Chicago.
Rambler bicycles.

Reading Factory, American Bicycle Company, Reading, Pennsylvania.—Stover, Pennant and Mars bicycles.

Riker Electric Vehicle Company, Elizabethport, New Jersey.—Automobiles and separate parts.

Rubber Tire Wheel Company of America, 11 Broadway, New York.—The "Kempshall" rubber tire for light or heavy automobiles.

Shelby Factory, American Bicycle Company, Shelby, Ohio.
Ideal bicycles.

Smith Parts Factory, American Bicycle Company, Milwaukee, Wisconsin.—Bicycle parts, stampings, etc.

Sterling Factory, American Bicycle Company, Kenosha, Wisconsin.—Sterling chainless and chain bicycles.

Syracuse Factory, American Bicycle Company, Syracuse, New York.—Stearns, Barnes and Syracuse bicycles.

Thomas, John P., 439 31st Street, Chicago.
A double ball bearing axle, with an inner revolving sleeve.

Thompson Parts Factory, American Bicycle Company, Chicago.—Bicycle frame sets, stampings, etc.

Toledo Factory, American Bicycle Company, Toledo, Ohio.
Cleveland chainless and chain, and Viking bicycles.

Tribune Factory, American Bicycle Company, Erie, Pennsylvania.—Tribune chainless and chain bicycles.

Veeder Manufacturing Company, Hartford, Connecticut.
Cyclometers for bicycles and automobiles.

Westfield Factory, American Bicycle Company, Westfield, Massachusetts.—Westfield bicycles.

CLASS 31.

SADDLERY AND HARNESS.

Hallanan, M., 186 W. 4th St., New York.
Rubber horseshoe pads and horseshoes.

McKerron, J. A., San Francisco, California.
Horse boots, harness, saddles, parts of harness and materials pertaining to harness and saddlery.

O'Kane, J., San Francisco, California.
Harness, saddles, parts of harness and materials pertaining to harness and saddlery.

CLASS 32.

EQUIPMENT FOR RAILWAYS AND STREET RAILWAYS.

Allis, Edward P., Company, Milwaukee, Wisconsin.
Photographs of engines for generating electric power for street railways.

American Balance Slide Valve Company, Jersey Shore, Pennsylvania.—Slide valves on Richmond 10-wheeled locomotive.

American Brake Company, St. Louis, Missouri.
Brakes on Richmond locomotive.

American Car & Foundry Company, St. Louis, Missouri.
Railroad equipment.

American Car Company, St. Louis, Missouri.
Photographs of car bodies.

Appleton, T., Houghton, Michigan.
Photographs of railroad construction.

Ashcroft Manufacturing Company, New York.
Steam gauge ,displayed on Baldwin locomotive.

Auditor, West Virginia State, Charleston, West Virginia.
Reports.

Babcock & Wilcox Company, New York.
Photographs of power house stations.

Baldwin Locomotive Works, Philadelphia, Pennsylvania.
Express passenger locomotive. Freight locomotive. Mogul type.

Brill, J. G., Company, Philadelphia, Pennsylvania.
Working models in brass of trucks for tramway electric cars.

Brown, Harold P., 120 Liberty Street, New York City.
Photographs of plastic rail bonds.

Chisholm & Moore Manufacturing Company, Cleveland, Ohio.—Photographs of engineering and railroad machinery.

Coale Muffler & Safety Valve Company, Baltimore, Maryland.
Safety valves ,and mufflers, on Richmond locomotive.

Comptroller of the Treasury, New Jersey State, Trenton, New Jersey.—Railroad and canal reports.

Consolidated Car Fender Company, Providence, Rhode Island.—Photograph of car fender.

Consolidated Car Heating Company, Albany, New York.
Photographs of cars and car heating apparatus.

Continuous Rail Joint Company of America, Newark, New Jersey.—Rail joints, small sections, and photographs.

Cornell University, College of Civil Engineering of, Ithaca, New York.—Proceedings.

Corporation Commission, North Carolina, Raleigh, North Carolina.—Reports.

Crosby Steam Gauge & Valve Company, Boston, Massa-chusetts.—Safety valves, on Baldwin locomotive.

Diamond State Steel Company, Wilmington, Delaware.
Bolts, nuts, spikes, fish-plates, and angle bars for railroads.

Doane, W. A., Meadville, Pennsylvania.
Photographs of railroad bridge construction.

Engineering Record, New York City.
Publication.

Engineering Society, Iowa, Cedar Rapids, Iowa.
Proceedings.

Engineering Society, Michigan, Climax, Michigan.
Proceedings.

Engineering Societies, Journal of the Association of, Philadelphia, Pennsylvania.—Journal.

Engineering, Western Society of, Chicago.
Proceedings.

Engineers and Surveyors, Illinois Society of, Peoria, Illinois.
Proceedings.

Engineers, Civil, American Society of, New York.
Proceedings.

Engineers' Club of Cincinnati, Cincinnati, Ohio.
Proceedings.

Engineers' Club of Philadelphia, Philadelphia, Pennsylvania.—Proceedings.

Engineers' Club of St. Louis, St. Louis, Missouri.
Proceedings.

Engineers, Montana Society of, Helena, Montana.
Proceedings.

Engineers' Society of Western Pennsylvania, Pittsburg, Pennsylvania.—Proceedings.

Equalization, Wyoming State Board of, Cheyenne, Wyoming.
Reports.

Fairbanks, Morse & Company, Franklin and Monroe Sts., Chicago.—Petroleum motor-car, hand-car, push-car and velocipede car.

French, A., Spring Company, Pittsburg, Pennsylvania.
All springs used on the Richmond locomotive.

Galena Oil Company, Franklin, Pennsylvania.
Lubricating oils for railroads, street railways, etc.

Goodwin Car Company, New York.
Two complete dump-cars with air-brakes and air dumping apparatus. Attachments to change into armor car.

Gould Coupler Company, 25 W. 33d St., New York City.
Master car-builders' couplers, vestibule, and continuous platforms.

Hall, E. L., 50 N. 23d St., Philadelphia, Pennsylvania.
Headlight, displayed on Baldwin locomotive.

Hendricks Brothers, 49 Cliff Street, Philadelphia, Pennsylvania.—Furnace material displayed on Baldwin locomotive.

Hipwood-Barrett Car & Fender Company, 66 Broadway, New York.—Photographs of car fenders.

Hotchkiss, C. W., Chicago.
Outline plans of railroad engineering.

International Brake-Shoe Company, Old Colony Building, Chicago.—Brake-shoes, and diagrams of tests.

Johnson, Thomas H., Pittsburg, Pennsylvania.
Photographs of railroad construction.

Kimball, George A., Boston, Massachusetts.
Photographs of railroad construction.

Latrobe Steel Works, Latrobe, Pennsylvania.
Tires for driving wheels of Richmond locomotive.

Leach, Henry L. E., Boston, Massachusetts.
Sand-blast on Richmond locomotive.

Leonhardt Wagon Manufacturing Company, Baltimore, Maryland.—Photographs of revolving tower wagon for use on street railways.

McCann, Thomas H., Hoboken, New Jersey.
Photographs of street-railway construction, etc.

McCardell, J. R., & Company, Trenton, New Jersey.
Photographs of "Trenton Trolley Wagon," used on street railways.

McConway & Torley Company, The, Pittsburg, Pennsylvania.
Janney automatic car couplers.

McGuire Manufacturing Company, 122 Sangamon Street, Chicago.—Electric snow-plow and sweeper, solid steel Columbian truck, bicycle truck, elastic brake hanger, etc.

McKee, Fuller & Company, Catasaqua, Pennsylvania.
Car wheels and axles.

Nathan Manufacturing Company, New York.
Injectors and lubricator on Richmond locomotive.

National Hollow Brake Beam Company, Chicago.
Brake beam on Richmond locomotive.

National Railway Publication Company, New York.
Official guide of the railways and steam navigation lines of the United States, Porto Rico, Canada, Mexico, and Cuba.

National Tube Works, 267 S. Fourth Street, Philadelphia, Pennsylvania.—Tubes displayed on Baldwin locomotives.

New York Air Brake Company, The, 66 Broadway, New York York City.—Automatic quick-action compressed air-brakes for a train of 50 freight cars, and for a passenger train of 10 cars, models, diagrams, etc.
Chicago, 1893, two medals.

New York Car Wheel Works, Buffalo, New York.
Photographs of railroad construction.

Ohmer, William I., Dayton, Ohio.
Odometers and conductors' ticket-issuing machines.

Page, Newell & Company, Boston, Massachusetts.
Steel tired wheels for Richmond engine and tender.

Parkhurst, H. W., Engineer of Bridges, Illinois Central Railway System, Chicago.—Photographs of railroad construction.

Porter, H. K., Company, Pittsburg, Pennsylvania.
Photographs of light locomotives.

Powers, Joseph A., Lansingburg, New York.
Photographs of railroad construction.

Pressed Steel Car Company, Pittsburg, Pennsylvania.
Pressed steel cars, car trucks and bolsters.

Pullman Company, The, Chicago.
Photographs illustrating the development of sleeping cars.

Q. & C. Company, Chicago.
Samples of ties illustrating protection afforded by tie-plates and method of applying same. Illustrations and photographs.

Railroad & Warehouse Commission, Illinois State, Springfield, Illinois.—Reports.

Railroad & Warehouse Commission, Minnesota State, St. Paul, Minnesota.—Reports.

Railroad & Warehouse Commission, Missouri State, Jefferson City, Missouri.—Reports.

Railroad Association, The, Western, Chicago.
Proceedings.

Railroad, Chattanooga & Lookout Mountain, Chattanooga, Tennessee.—Photographs of double incline railway.

Railroad, Chicago, Milwaukee & St. Paul, Chicago.
Model of a Howe bridge, with approaches.

Railroad Commission, Alabama State, Montgomery, Alabama.
Reports.

Railroad Commission, Arkansas State, Little Rock, Arkansas.
Reports.

Railroad Commission, Florida State, Tallahassee, Florida.
Reports.

Railroad Commission, Georgia State, Atlanta, Georgia.
Reports.

Railroad Commission, Kentucky State, Frankfort, Ken- tucky.—Reports.

Railroad Commission, Massachusetts State, Boston, Massa- chusetts.—Reports.

Railroad Commission, Mississippi State, Jackson, Mississippi.
Reports.

Railroad Commission, New Hampshire State, Concord, New Hampshire.—Reports.

Railroad Commission, Texas State, Austin, Texas.
Reports.

Railroad Commission, Vermont State, Burlington, Ver- mont.—Reports.

Railroad Commission, Virginia State, Richmond, Virginia.
Reports.

Railroad Commissioner, Rhode Island State, Providence, Rhode Island.—Reports.

Railroad Commissioners, California State Board of, San Francisco, California.—Reports.

Railroad Commissioners, Connecticut Board of, Hartford, Connecticut.—Reports.

Railroad Commissioners, Iowa State Board of, Des Moines, Iowa.—Reports.

Railroad Commissioners, Kansas State Board of, Fort Scott, Kansas.—Reports.

Railroad Commissioners, Maine State, Augusta, Maine.
Reports.

Railroad Commissioners, New York State Board of, Albany, New York.—Reports.

Railroad Commissioners, South Carolina State, Columbus, South Carolina.—Reports.

Railroad Commissioners, South Dakota State, Sioux Falls, South Dakota.—Reports.

Railroad Commissioners, Wisconsin State, Madison, Wis-consin.—Reports.

Railroad Company, Lehigh Valley, New York.
Photographs of railroad construction.

Railroad Company, Michigan Central, Detroit, Michigan.
Photographs of railroad construction.

Railroad Company, Philadelphia & Reading, Philadelphia, Pennsylvania.—Photographs of railroad construction.

Railroad Gazette, New York.
Publication upon engineering.

Railroad, New York Central & Hudson River, Albany, New York.—Photographs of railroad construction.

Railroad, Northern Pacific, St. Paul, Minnesota.
Atlas of standard bridge plans.

Railroads & Telegraphs, Ohio State Commissioner of, Colum-bus, Ohio.—Report.

Railroads, Commissioner of, Michigan State, Lansing, Michi-gan.—Reports.

Railroads, Commissioners of, North Dakota State, Bismarck, North Dakota.—Reports.

Railway Accounting Officers, Association of American, Chicago.—Proceedings.

Railway Age, Chicago.
Publication: The Railway Age.

Railway and Engineering Review, Chicago.
Publication.

Railway Association, the American, New York.
Proceedings.

Railway, Boston & Maine, Boston, Massachusetts.
Photographs and descriptive publications.

Railway Car Accountants, International Association of, Cedar Rapids, Iowa.—Proceedings.

Railway, Chicago & West Michigan, Grand Rapids, Michigan.—Photographs of railroad construction.

Railway Club, Central, of Buffalo, New York.
Proceedings.

Railway Club, New England, Springfield, Massachusetts.
Proceedings.

Railway Club, New York, Brooklyn, New York.
Proceedings.

Railway Club, Northwest, Minneapolis, Minnesota.
Proceedings.

Railway Club, St. Louis, St. Louis, Missouri.
Proceedings.

Railway Club, Western, Chicago.
Proceedings.

Railway Company, Colorado Midland, Denver, Colorado.
Photographs of railroad and tunnel construction.

Railway Company, Gulf, Colorado & Santa Fe, Galveston, Texas.—Photographs of railroad machinery.

Railway Company, Metropolitan West Side Elevated, Chicago.—Photographs of elevated railway construction.

Railway Company, Missouri Pacific, St. Louis, Missouri.
Photographs of railroad work.

Railway Company, Peoria & Eastern, Indianapolis, Indiana.
Photographs of railroad construction.

Railway General Passenger & Ticket Agents, American Association of, Cleveland, Ohio.—Proceedings.

Railway Master Car & Locomotive Painters' Association, Kent, Ohio.—Proceedings.

Railway Master Car Builders' Association, Chicago.
Proceedings.

Railway Master Mechanics, American Association of, Chicago.—Proceedings.

Railway Road Masters' Association of New England, Ware, Massachusetts.—Proceedings.

Railway Signalling Club, West Milwaukee, Wisconsin.
Proceedings.

Railway Superintendents of Bridges and Buildings, Association of, Concord, New Hampshire.—Proceedings.

Railway Telegraph Superintendents, Association of, Milwaukee, Wisconsin.—Proceedings.

Railways, Pennsylvania State Bureau of, Harrisburg, Pennsylvania.—Reports.

Reading Iron Company, Reading, Pennsylvania.
Tubes displayed on Baldwin locomotive.

Richmond Locomotive and Machine Works, Richmond, Virginia.—Ten wheeled passenger locomotive, built for the Finland State Railways, cylinders, 16x24 inches.
Richmond "Tramp," compound freight locomotive, No. 2427, cylinders, 20x32x26 inches.
Front end of compound locomotive showing valves.

Ricker, George A., Buffalo, New York.
Photographs of railway construction.

Road Masters' Association of America, Sterling, Illinois.
Proceedings.

Rodd, Thomas, Chief Engineer, Pennsylvania Lines West of Pittsburg, Pittsburg, Pennsylvania.—Photographs of track elevation.

Rooke Register Company, Peoria, Illinois.
Portable fare registers.

Safety Car Heating & Lighting Company, New York.
Gas lighting system on Richmond ten-wheeled locomotive.

Scott, Charles, Spring Company, Philadelphia, Pennsylvania.
Springs on Richmond locomotive.

Scripture, Edward W., New Haven, Connecticut.
Color sight testing instruments.

Sellers, William, & Company, Inc., Philadelphia, Pennsylvania.—Self-acting injector. Automatically adjusts water supply without waste at overflow. Restarts automatically if jet is broken. Capacity increases with steam pressures from 15 to 225 pounds. Minimum capacity at 180 pounds 43 per cent of maximum.

Paris, 1867, gold medal. Vienna, 1873, diploma of honor and five medals. Philadelphia, 1876, three medals. Paris, 1889, grand prix.

Signal Oil Company, Franklin, Pennsylvania.
Locomotive and car lubricating oils.

Standard Steel Works, Philadelphia, Pennsylvania.
Railroad wheels, axles, tires, and forgings.

Street Railway Association, American, Chicago.
Proceedings.

Street Railway Publishing Company, New York.
Street Railway Journal.

Surveyors and Civil Engineers, Ohio Society of, Columbus, Ohio.—Proceedings.

Taunton Locomotive Manufacturing Company, Taunton, Massachusetts.—Photographs of light locomotives.

Tax Commissioner, Maryland State, Annapolis, Maryland.
Reports.

Tax Commissioners, Indiana State Board of, Indianapolis, Indiana.—Reports.

Track Elevation and Depression Commission, Chicago.
Plans and photographs of track elevation and depression.

Transportation, Nebraska State Board of, Lincoln, Nebraska.
Report.

United States Metallic Packing Company, Philadelphia, Pennsylvania.—Metallic packing, displayed on Baldwin locomotive.

Weber Railway Joint Manufacturing Company, New York.
York.—Railway joints and bonds, photographs and drawings.

Westinghouse Air Brake Company, Pittsburg, Pennsylvania.
Brakes on Richmond locomotive.

Wilgus, William J., New York.
Photographs of railroad construction.

Worth Brothers & Company, Coatesville, Pennsylvania.
Boiler material, displayed on Baldwin locomotive.

Yard, E. J., Salt Lake City, Utah.
Photographs of railroad construction.

CLASS 33.

MATERIAL AND EQUIPMENT USED IN THE MERCANTILE MARINE.

Advance Coal Company, Pittsburg, Pennsylvania.
Model of towboat, with barges.

Alleman, A., Brenham, Texas.
Live-saving apparatus.

Allen, Frederick S., Cuttyhunk Island, Massachusetts.
Live-saving apparatus.

American Motor Company, 32 Broadway, New York City.
Motor launches.

American Steel Barge Company, New York City.
Models of whaleback barges and others.

Arnold, Mrs. W. A., New York.
Model of schooner yacht "Sachem."

Astor, John Jacob, New York.
Model of electric yacht "Eutopian."

Atlantic Yacht Club, New York.
Model of steam yacht "Presto."

Bagg, S. F., Tarrytown, New York.
Life-saving apparatus.

Bartholomew, J. S., Guerneville, California.
Life-saving apparatus.

Benson, Oliver, 111 Fourth Avenue, New York.
Life-saving apparatus.

Bergfeldt, N. H., 341 E. 59th St., New York.
Life-saving apparatus.

Bethlehem Steel Company, South Bethlehem, Pennsylvania.—Photographs illustrating the manufacture of armor-plate, ordnance, hollow or solid forged shafting; general forgings and castings. Commercial product steel forgings for marine and stationary engines, machine tools, and for general use in the trades; made of fluid-compressed open hearth plain or nickel steel, solid or hollow, hydraulically forged and annealed or oil-tempered.
Chicago, 1893, medal.

Bolles, Charles E., 244 Fulton St., Brooklyn, New York.
Yachting and marine photographs.

Bowles, Francis T., Naval Constructor, U. S. Navy.
Life-saving apparatus.

Boyle, Patrick F., 17 Conlin Court, Worcester, Massachusetts.—Life-saving apparatus.

Bradley, J. D., Barker, Niagara County, New York.
Life-saving apparatus.

Bragard, A., Donaldsville, Louisiana.
Life-saving apparatus.

Brokaw, W. Gould, New York Yacht Club, New York.
Model of schooner yacht "Amorita" and painting of same.

Bullock, George, Seawanhaka Corinthian Yacht Club, New York.—Model of sloop yacht "Narota."

Burton-Hoffman Photo Company, 9 W. 42d St., New York.—Yachting and marine photographs.

Busk, Mrs. J. R., Newport, Rhode Island.
Model of schooner yacht and model of schooner yacht "Mischief."

Cainsbensy, Frank, 27 N. Hoyne Ave., Chicago.
Life-saving apparatus.

Carley, Horace L., 123 Huntington Avenue, Hyde Park, Massachusetts.—Life-saving apparatus.

Carter, W. C., Delaware, Ohio.
Life-saving apparatus.

Castillo, Ernest, West Tampa, Florida.
Life-saving apparatus.

Chapman, W. H., Salt Lake City, Utah.
Life-saving apparatus.

Cobb, J. I., Salina, Kansas.
Life-saving apparatus.

Columbia Safety S. S. Company, Boston, Massachusetts.
Life-saving apparatus.

Crawshaw, C. R., Jonesville, Virginia.
Life-saving apparatus.

Darlot, Cyrus H., 455 E. 57th St., New York.
Life-saving apparatus.

Department of Transportation, U. S. Commission to the Paris Exposition.—A collective exhibit illustrating the development of American yachts.

Dickenson, Charles G. L. O., Washington, D. C.
Life-saving apparatus.

Dingman, J. A., Spring Valley, Illinois.
Life-saving apparatus.

Doremus, Dr., College, City of New York.
Life-saving apparatus.

Drein, Thomas, & Company, Wilmington, Delaware.
Life-saving apparatus.

Dubreuil, Victor, 107 W. 43d St., New York.
Life-saving boat.

Duncan, John P., New York Yacht Club, New York.
Model of steam yacht Kanawha.

Elliott, William R., 6222 S. Halsted St., Chicago.
Life-saving apparatus.

Ellis, W. H., Fremont, Nebraska.
Life-saving apparatus.

Flint, Charles R., New York Yacht Club, New York.
Model of a steam yacht.

Forbes, J. Malcolm, Boston, Massachusetts.
Model of sloop yacht "Puritan."

Furgerson, Alan R., 253 Broadway, New York.
Life-saving apparatus.

Gardner & Cox, 1 Broadway, New York City.
Half models of sloop yacht "Syce" and of schooner yacht "Quisetta."

Gere, George H., Grand Rapids, Michigan.
Gasoline launches.

German, Solomon, Davidsonville, Maryland.
Life-saving apparatus.

Goldberg, B. W., 5 Beekman St., New York.
Life-saving apparatus.

Gondy, Arthur L., 1400 Louisiana St., Lawrence, Kansas.
Life-saving apparatus.

Goodwin Car Company, New York.
Model of dumping barge.

Hara, G. R., Salida, Colorado.
Life-saving apparatus.

Harris, Henry W., New York Yacht Club, New York.
Schooner yacht Quisetta, oil painting of.

Hatton, J. H., Fort Covington, New York.
Life-saving apparatus.

Hedberg, Alexander S., 9310 Evans Avenue, Chicago.
Life-saving apparatus.

Herbert, Frederick D., 20 Broad St., New York.
Life-saving apparatus.

Hichborn, Philip, Chief Constructor, U. S. Navy, Washington, D. C.—Life-saving buoy.

Higginson, H. C., Orange Lake Ice Yacht Club, New York.—Model of ice yacht Cold Wave.

Higginbotham, Elmer E., 6952 Parnell Avenue, Chicago.
Life-saving apparatus.

Hoy, M. P., Rosedale, Washington.
Life-saving apparatus.

Hughes, John P., 35 Walcott St., Brooklyn, New York.
Life-saving apparatus.

International Navigation Company, New York.
Models, pictures, photographs, etc., of the steamships and other property of the company, descriptive of trans-Atlantic steamship business.

Iowa Iron Works, Limited, Dubuque, Iowa.
Model of a sternwheel towboat.

Irwin, Charles P., Red Bank, New Jersey.
Full-rigged model of ice yacht "Georgie."

Ivers, John J., Lowell, Massachusetts.
Life-saving apparatus.

Jaques, W. H., 277 Clarendon St., Boston, Massachusetts.
Life-saving apparatus.

Johnson, J., Bridgeport, Alabama.
Life-saving apparatus.

Karnowsky, William, Florence, Oregon.
Life-saving apparatus.

Kennedy, W. J., Pier 14, North River, New York.
Life-saving apparatus.

Knickerbocker, Willis, New Lenox, Illinois.
Life-saving apparatus.

Kudo, M., Seattle, Washington.
Life-saving apparatus.

Lake, Levin, Charles and Saratoga Sts., Baltimore, Maryland.
Life-saving apparatus. Oil shell.

Leister, William Hammond, Westminster, Maryland.
Life-saving apparatus.

Leschbrandt, E., 206 N. 6th St., Philadelphia, Pennsylvania.
Life-saving apparatus.

Little, Joseph H., 105 E. 123d St., New York.
Life-saving apparatus.

"Long Arm" System Company, Cleveland, Ohio.
Devices operating at a distance, for use in ships, mines, and buildings, closing surely, and without jamming, safety bulkheads and hatches. Pneumatic, hydraulic, and electric systems and working gears; electric air compressors.

Official tests and service. In use more than two years on the U. S. cruiser "Chicago." Officially specified by description for fifteen U. S. battle-ships and cruisers, and for four monitors. The "man at the door" retains full control at all times.

Lozier Manufacturing Company, Cleveland, Ohio.
Gasoline launches, large and small.

Lund, Waldemar, New York, and 33 Fredericksberggade, Copenhagen, Denmark.—Life-saving apparatus.

Lyden, M. J., 8 Patterson St., Worcester, Massachusetts.
Life-saving apparatus.

Lyon, Leonidas S., Jr., Flatonia, Texas.
Life-saving apparatus.

McKinnon, James W., 713 E. 138th St., New York.
Life-saving apparatus.

McManus, Thomas F., Boston, Massachusetts.
Half models of pilot-boat "America," fishing schooner "Juniata," fishing boats "James S. Steele" and "Maggie Sullivan."

Magnerson, J. F., 120 Sutter St., San Francisco, California.
Life-saving apparatus.

Magoun, F. P., New York Yacht Club, New York.
Model of steam yacht Viper.

Marsh, John N., Williamstown, New Jersey.
Life-saving apparatus.

Massachusetts, State of, Boston, Massachusetts.
Collective exhibit of models of vessels.

Name.	Kind.	Date of Construction.
Sparrow Hawk	Early Colonial	1626
Manchester	Fishing schooner	1713
Black Sloven	Chebacco boat	1790
Lucy	Old style dogbody boat	1805
John W. Herbert	Fishing schooner	1848
Congress	Fishing schooner	1849
Harry L. Belden	Mackerel schooner	1889
Nannie C. Bohlan	Fishing schooner	1890

Massenge, August, 233 Fulton St., Grand Rapids, Michigan.
Life-saving apparatus.

Merriman, C. S., Vilisca, Iowa.
Life-saving apparatus.

Miller, Clark A., New York Yacht Club, New York.
Model of schooner yacht Mohegan.

Mississippi River Commission, U. S. A., St. Louis, Missouri.—Models of towboats and barges used on the Mississippi River.

Mississippi Valley Transportation Company, St. Louis, Missouri.—Model of towboat and barges.

Morgan, E. D., New York Yacht Club, New York.
Models of sloop yacht "Mayflower," schooner yacht "Constellation," sloop yacht "Gloriana."

Morgan, J. Pierpont, New York Yacht Club, New York.
Model of steam yacht "Corsair."

Mosher, C. D., 1 Broadway, New York City.
Models of steam yachts.

Motley, Thornton N., New York Yacht Club, New York.
Model of schooner yacht "Magic."

New York Boat Oar Company, 69 West St., New York.
Ash, spruce, and spoon oars; handpikes, mast hoops, etc.

New York Yacht Club, New York.
Models of sloop yachts "Defender" and "Vigilant" and of schooner yacht "Sappho."

Nuque, Gustave, Philadelphia, Pennsylvania.
Life-saving apparatus.

O'Brien, H. Jefferson, West Superior, Wisconsin.
Life-saving apparatus.

Omeyer, Emile, 365 W. 36th St., New York.
Life-saving apparatus.

O'Neill, William E., Chicago Stock Exchange, Chicago.
Life-saving apparatus.

Ostermeyer, William, 3351 California Avenue, St. Louis, Missouri.—Life-saving apparatus.

Paine, Gen. A. J., Boston, Massachusetts.
Model of sloop yacht "Volunteer."

Pendelton, Andrew F., Franklin, Massachusetts.
Life-saving apparatus.

Perley, C. B., 1001 Bush Street, San Francisco, California.
Life-saving apparatus.

Phoenix, Lloyd, New York Yacht Club, New York.
Models of auxiliary yacht "Intrepid."

Plecher, Andrew, Habersham and 2d Sts., Savannah, Georgia.
Life-saving apparatus.

Postley, Clarence A., Larchmont Yacht Club, New York.
Painting of schooner yacht "Colonia."

Redmond, Edmond, Rochester, New York.
Life-saving apparatus.

Richens, John M., Fitzgerald, Georgia.
Life-saving apparatus.

Ridley, Chris, 216 Laurel St., West Tampa, Florida.
Life-saving apparatus.

Rolf, A. A., 125 LaSalle St., Chicago.
Life-saving apparatus.

Savage, J. M., 10 N. Desplaines St., Chicago.
Life-saving apparatus.

Seawanhaka Corinthian Yacht Club, Long Island, New York.—Half models racing and pleasure yachts.

Sinclair, W. A., South Bend, Indiana.
Life-saving apparatus.

Smith, George B., Indianola, Nebraska.
Life-saving apparatus.

Spalding St. Lawrence Boat Company, Ogdensburg, New York.—St. Lawrence river skiff and Canadian type of paddling canoe.

Stanley, William E., Watsonville, California.
Life-saving apparatus.

Stebbins, Charles M., Orange Lake Ice Yacht Club, New York.
Model of ice yacht "Katita."

Stevens Institute, Hoboken, New Jersey.
Model of ferryboat Hamburgh.

Stewart, S. N., 168 Jefferson Avenue, Brooklyn, New York.
Life-saving apparatus.

Sultemeyer, C. F., 1448 N. Halsted St., Chicago.
Life-saving apparatus.

Tams, Lemoine & Crane, New York.
Half model of schooner yacht "Endymion."

Taylor, W. H., Narragansett Pier, Rhode Island.
Life-saving apparatus.

Thatcher, H. L., Aurora, Illinois.
Life-saving apparatus.

Thibodran, Emlyde, Cohoes, New York.
Life-saving apparatus.

Thompson, Edward D., 81 Fulton St., New York.
Life-saving apparatus.

Todd, W. E., Charleston, South Carolina.
Life-saving apparatus.

Tunison, Mary L., 63 Franklin St., Trenton, New Jersey.
Life-saving apparatus.

Universal Exposition Commission of the State of New York,
New York.—Models of schooner yachts "Madeline," "Columbia," and "America."

Van Cauenberg, Frank, 1204 Southwest St., Rockford, Illinois.—Life-saving apparatus.

Van Wye, G. P., Park Row Building, New York.
Life-saving apparatus.

Wagner, W. F., Wabash, Indiana.
Life-saving apparatus.

Wright, Henry L., Walden, New York.
Life-saving apparatus.

Warren, E. B., New York Yacht Club, New York.
Model of steam yacht "Ellide."

GROUP VII.

AGRICULTURE.

CHARLES RICHARDS DODGE, DIRECTOR.

CLASS 35.

FARM EQUIPMENT AND THE METHODS OF IMPROVING LAND.

Adriance, Platt & Company, Poughkeepsie, New York.
Mowers, reapers, binders, harrows and rakes.

Aermotor Company, The, Chicago.
Windmills, pumps, tanks.

American Cotton Company, Chicago.
Cotton gin and cylindrical baling press in operation.

Armour Fertilizing Works, Chicago.
Fertilizers, dried blood, tankage.

Auchincloss Brothers, New York.
Phosphates. dunnellon.

Aultman, Miller & Company, Akron, Ohio.
Buckeye mowing machine; Buckeye twine-binding harvester; Buckeye reaper. The mower will cut 3½ feet wide per one horse, and 4½ feet, 5 feet and 6 feet per two horses. The binder will cut 5, 6 and 7 feet wide. The reaper will cut 4½ feet wide per one horse and 5 feet per two horses.

Bayle & Lacosta, San Francisco, California.
Fertilizers.

Brown, Lucius P., Nashville, Tennessee.
Tennessee phosphates.

California Fertilizer Company, San Francisco, California.
Fertilizers.

Central Phosphate Company, Mt. Pleasant, Tennessee.
Phosphate rock.

Chicago Flexible Shaft Company, Chicago.
Hair and wool clipping machines, carriage heaters.

Deere & Company, Moline, Illinois.
Agricultural implements.

Deering Harvester Company, Chicago.
Harvesting machinery, etc.

Department of Agriculture, U. S. A., Division of Chemistry, Washington, D. C.—Collective exhibit of fertilizers and fertilizing materials.

Dutton, H. F., & Company, Gainesville, Florida.
Florida phosphates.

Hughes, A. M., Columbia, Tennessee.
Tennessee phosphates.

Indo-Egyptian Compress Company, New York City.
Compress for cotton, hay, hemp, sisal, rags.

International Phosphate Company, Mt. Pleasant, Tennessee.
Phosphate rock containing 82 per cent bone phosphate of lime.

Johnson & Field Manufacturing Company, Racine, Wisconsin.—Fanning mill and separator.

Johnston Harvester Company, Batavia, New York.
Harvesting machinery, farm tools.

Kaufmann Fertilizer Company, Indianapolis, Indiana.
Fertilizer, from raw material to finished product.

Kny Scheerer Company, 17 Park Row, New York.
Veterinary surgical instruments.

McCormick Harvesting Machine Company, Chicago.
Models of machines invented and developed by Cyrus H. McCormick and his successors. Harvesting machinery.

Menninger, C. G., & Company, Bartow, Florida.
Florida phosphates.

Milwaukee Harvester Company, Milwaukee, Wisconsin.
Farm machinery, harvesters, binders, reapers and mowers.
European Kepresentatives: Hugh Reid Griffin & Co., London, England; Perrier & Hafft, Paris, France; Knauer & Eckmann, Hamburg, Germany; Witt & Svendsen, Danzig, Germany; P. Siderow, Helsingfors, Finland; S. Young, Moscow, Russia; G. V. Rundstrom & Co., Norrkoping, Sweden; Gjovik Stoberi & Mek, Vaerksted, Gjovik, Norway.

Osborne, D. M., & Company, Auburn, New York.
Agricultural machinery.

Perry Phosphate Company, Nashville, Tennessee. Works at Tom's Creek, Tennessee.—Phosphate rock.

Plano Manufacturing Company, Chicago.
Harvesting machinery.

Stover Manufacturing Company, Freeport, Illinois.
Windmills, feed-grinding mills, hardware.

Syracuse Chilled Plow Company, Syracuse, New York.
Farm machinery, plows, harrows, cultivators, etc.

Warder, Bushnell & Glessner Company, Chicago.
Champion binder, mowers and reapers.

Whitman Agricultural Company, St. Louis, Missouri.
Presses for baling hay.

Whitman & Barnes Company, Akron, Ohio.
Mower and binder knives and sections. Twist drills, hammers, hatchets.

Withington & Cooley Manufacturing Company, Jackson, Michigan.—Forks, hoes, rakes, scythes, snaths, etc.

Wood, Walter A., Mowing and Reaping Machine Company, Hoosick Falls, New York.—Harvesting machinery.
Paris, 1867, grand prix, two gold medals, Chevalier of the Legion of Honor. Paris, 1878, grand prix, two gold medals, objet d'art, Officer Legion of Honor. Paris, 1889, grand prix, two gold medals and special objet d'art. Vienna, 1873, grand diploma of honor, imperial cross Francis Joseph.

CLASS 37.

APPLIANCES AND METHODS USED IN AGRICULTURAL INDUSTRIES.

American Separator Company, Bainbridge, New York.
Dairy appliances; cream separator.

Aspinwall Manufacturing Company, Jackson, Michigan.
Churn.

Biesecker, J. S., New York City.
Dairy appliances.

Buhl Stamping Company, Detroit, Michigan.
Dairy appliances and stable appliances.

Champion Milk Cooler, Cortland, New York.
Milk and cream coolers.

Cornish, Curtis & Green Manufacturing Company, Fort Atkinson, Wisconsin.—Model of an American creamery, fully equipped. Dairy appliances.

Dairymen's Supply Company, The, Philadelphia, Pennsylvania.—Dairy machinery and supplies.

Department of Agriculture, U. S. A., Dairy Division, Bureau Animal Industries, Washington, D. C.—Collective exhibit of dairy appliances. By-products of dairy industry.

Elgin Manufacturing Company, The, Elgin, Illinois.
Dairy appliances.

Ertels, George M., Company, Quincy, Illinois.
Incubators, brooders, poultry appliances.

Fairfield Dairy Company, The, Montclair, New Jersey.
Photographs and models illustrating the work of a dairy and its fittings.

Fitch, B. L., Fort Atkinson, Wisconsin.
Scale for butter coloring.

Greiner, Emil, New York City.
Dairy appliances.

Gurler, H. B., De Kalb, Illinois.
Photographs of dairy and fittings. Dairy appliances.

Hall, William A., Bellows Falls, Vermont.
Dairying by-products.

Johnson, J. F., & Company, Racine, Wisconsin.
Dairy appliances.

Mann, F. W., Company, Milford, Massachusetts.
Bone cutters.

Moseley & Stoddard Manufacturing Company, Rutland, Vermont.—Dairy appliances.

National Specialty Company, Racine, Wisconsin.
Milk pails.

Nelson, Hall & Company, Montgomery, Vermont.
Butter tubs and boxes.

Reid, A. H., 30th and Market St., Philadelphia, Pennsylvania.—Milk separators, hand and power, pasteurizers.

Reliable Incubator & Brooder Company, Quincy, Illinois.
Incubators and brooders, models, poultry appliances.

St. Louis Dairy Company, St. Louis, Missouri.
Photographs. Plant, equipment and work of handling milk in a city.

Sharples, P. M., West Chester, Pennsylvania.
Cream separators.

Standard Oil Company, New York.
Cheese coating.

Star Milk Cooler Company, The, Haddonfield, New Jersey.
Milk cooler, bottling machine, etc.

Vermont Farm Machine Company, Bellows Falls, Vermont.
Dairy appliances.

Wickson, C. G., & Company, San Francisco, California.
Dairy appliances.

Wilder Manufacturing Company, Springfield, Massachusetts.
Electrical temperature indicator.

Williams, Thomas, Brooklyn, New York.
Felt jackets for milk cans.

CLASS 38.

THEORY OF AGRICULTURE—AGRICULTURAL STATISTICS.

Agricultural Experiment Station of Alabama, Auburn, Alabama.—Experiments on improvement of varieties of cotton. Monograph on cotton, photographs.

Agricultural Experiment Station of Arizona, Tucson, Arizona. Charts showing influence of winter irrigation on movement of ground water. Photographs.

Agricultural Experiment Station of Arkansas, Fayetteville, Arkansas.—Photographs. Fertilizer experiments with wheat.

Agricultural Experiment Station of California, Berkeley, California.—Typical soils, soil map, soil analysis, photographs and reports.

Agricultural Experiment Station of Colorado, Fort Collins, Colorado.—Photographs.

Agricultural Experiment Station of Connecticut, New Haven, Connecticut.—Collection of vegetable proteids separated from various seeds. Photographs.

Agricultural Experiment Station of Delaware, Newark, Delaware.—Photographs.

Agricultural Experiment Station of Florida, Lake City, Florida.—Photographs. Experiments with pineapples, etc.

Agricultural Experiment Station of Idaho, Moscow, Idaho. Photographs.

Agricultural Experiment Station of Illinois, Urbana, Illinois.—Photographs.

Agricultural Experiment Station of Indiana, Lafayette, Indiana.—Plant centrifuge. Photographs.

Agricultural Experiment Station of Iowa, Ames, Iowa. Photographs, models of fruits, vegetables and meats.

Agricultural Experiment Station of Kansas, Manhattan, Kansas.—Models of meat, showing effects of breed and feeding. Photographs.

Agricultural Experiment Station of Kentucky, Lexington, Kentucky.—Charts showing effect of fertilizers. Photographs.

Agricultural Experiment Station of Maine, Orono, Maine. Photographs.

Agricultural Experiment Station of Maryland, College Park, Maryland.—Photographs.

Agricultural Experiment Station of Minnesota, St. Anthony Park, Minnesota.—Photographs, charts, samples of crossbred wheat.

Agricultural Experiment Station of Mississippi, Agricultural College, Mississippi.—Photographs.

Agricultural Experiment Station of Missouri, Columbia, Mis-souri.—Sheep charts showing crossing experiments. Photographs.

Agricultural Experiment Station of Montana, Bozeman, Mon-tana.—Photographs.

Agricultural Experiment Station of Nebraska, Lincoln, Nebraska.—Photographs.

Agricultural Experiment Station of New Hampshire, Dur-ham, New Hampshire.—Photographs.

Agricultural Experiment Station of New Jersey, New Bruns-wick, New Jersey.—Monograph on plant diseases; twenty mounted specimens. Photographs.

Agricultural Experiment Station of New Mexico, Mesilla Park, New Mexico.—Photographs, cereal exhibits.

Agricultural Experiment Station of New York, Geneva, New York.—Charts, sources of milk fat, coefficients of digestibility of American food stuffs. Photographs.

Agricultural Experiment Station of North Carolina, Raleigh, North Carolina.—Photographs.

Agricultural Experiment Station of North Dakota, Agri-cultural College, North Dakota.—Root cages, showing distribution of grain and grasses in soils. Photographs.

Agricultural Experiment Station of Ohio, Wooster, Ohio.
Monograph on plant diseases. Charts, photographs.

Agricultural Experiment Station of Oklahoma, Stillwater, Oklahoma.—Photographs; tests of orchards and of irrigation on forest trees; feeding experiments.

Agricultural Experiment Station of Pennsylvania, State College, Pennsylvania.—Bulletin on metabolism; experiments on steers to determine maintenance ration. Photographs.

Agricultural Experiment Station, Reno, Nevada.
Photographs.

Agricultural Experiment Station of Rhode Island, Kingston, Rhode Island.—Photographs; experiments in crossing geese and effects of lime on clover, etc.

Agricultural Experiment Station of South Carolina, Clemson College, South Carolina.—Photographs.

Agricultural Experiment Station of South Dakota, Brookings, South Dakota.—Photographs.

Agricultural Experiment Station (Storrs), Storrs, Connecti-cut.—Bacteria cultures useful or deleterious in dairying. Photographs.

Agricultural Experiment Station of Tennessee, Knoxville, Tennessee.—Photographs.

Agricultural Experiment Station of Texas, College Station, Texas.—Photographs.

Agricultural Experiment Station of Utah, Logan, Utah.
Photographs.

Agricultural Experiment Station of Vermont, Burlington, Vermont.—Photographs, charts, monographs.

Agricultural Experiment Station of Virginia, Blacksburg, Virginia.—Photographs, charts.

Agricultural Experiment Station of Washington, Pullman, Washington.—Photographs, varieties of grasses.

Agricultural Experiment Station of West Virginia, Morgan-town, West Virginia.—Photographs, monographs, auxanometer.

Agricultural Experiment Station of Wisconsin, Madison, Wisconsin.—Milk tests, meat models, charts, photographs.

Agricultural Experiment Station of Wyoming, Laramie, Wyoming.—Charts, photographs.

Association of Agricultural Colleges and Experiment Stations.—Collective exhibit of the work of experiment stations in the United States.

Chamberlain Publishing Company, Orange, New Jersey. Publications, Rackham's Poultry Directory.

Department of Agriculture, U. S. A., Bureau of Animal Industry, Washington, D. C.—Maps, charts, illustrating animal industries of the United States.

Department of Agriculture, U. S. A., Dairy Division, B. A. I., Washington, D. C.—Maps, diagrams and charts illustrating dairy industries of the United States.

Department of Agriculture, U. S. A., Division of Soils, Washington, D. C.—Electrical apparatus for determining soil moistures, samples of soils.

Department of Agriculture, U. S. A., Office of Experiment Stations, Washington, D. C.—Publications, photographs, plans, drawings.

Department of Agriculture, U. S. A., Weather Bureau, Washington, D. C.—Working weather station and observatory, showing the recording instruments in operation.

Experiment Station of Alaska, Sitka, Alaska. Agriculture products, photographs.

Experiment Station of Cornell University, Ithaca, New York. Photographs, models.

Experiment Station of Georgia, Experiment, Georgia. Photographs.

Experiment Station of Hawaii, Honolulu, Hawaii. Lavas and rocks, natural mineral products, coffee, rice, sugar. Photographs.

Experiment Station of Louisiana, Baton Rouge, Louisiana. Photographs.

Experiment Station (Sugar) of Louisiana, New Orleans, Louisiana.—Photographs.

Experiment Station (Hatch), of Massachusetts, Amherst, Massachusetts.—Photographs, charts.

Experiment Station of Michigan, Agricultural College, Michigan.—Charts, photographs.

Experiment Station of Oregon, Corvallis, Oregon.
Photographs.

CLASS 39.

VEGETABLE FOOD PRODUCTS.

Abernathy, J. E., Ocellus, Tennessee.
New York hard wheat, winter barley, winter rye, oats.

Abild, Hans, Lodi, South Dakota.
Indian corn.

Abbott, W. J., Urbana, Ohio.
Wheat in the straw.

Ackman & Tuftley, Los Angeles, California.
Olive oil.

Agricultural Experiment Station (Hatch), Amherst, Massachusetts.—Millet, soy beans, plants, seeds and hay.

Agricultural Experiment Station of Kentucky, Lexington, Kentucky.—Collective exhibit of wheats.

Agricultural Experiment Station of Maryland, College Park, Maryland.—Wheats, corn, emmer.

Agricultural Experiment Station of New Mexico, Messilla Park, New Mexico.—Grain, new varieties produced by Prof. A. E. Blount.

Agricultural Experiment Station of North Dakota, Agricultural College, North Dakota.—Barley, corn, buckwheat, oats, emmer, wheats.

Agricultural Experiment Station of Oregon, Corvallis, Oregon.—Collective exhibit of export cereals grown in Oregon.

Agricultural Experiment Station of Pennsylvania, State College, Pennsylvania.—Collective exhibit of wheats.

Agricultural Experiment Station of Washington, Pullman, Washington.—Collective exhibit of barley, oats, wheat.

Aiken, W., Fair Forest, South Carolina.
Lowland swamp rice.

Aldredge, W., Hinckley, Utah.
Alfalfa seed.

Allen, W. A., Watertown, Tennessee.
Moscow yellow corn.

Altman, J., Cribbs, Pennsylvania.
Winter rye.

American Cereal Company, The, Chicago.
Dairy stock and poultry foods.

Amsden, C. S., Millbank, South Dakota.
Barley, "Marble" wheat, winter rye.

Anable, I. M., Naples, New York.
"Clawson Gold Coin" wheat, oats, barley, winter rye.

Anderson, O. F., Abilene, Texas.
Corn.

Anderson, T. C., Abilene, Texas.
Barley, rye, oats, corn.

Anderson, T. O., Abilene, Texas.
Corn, millet,

Andreus, F. G., China Grove, Mississippi.
Rice.

Ash, Marshall, Hastings, Nebraska.
Corn.

Ashley, D. G., Ashley, Mississippi.
Oats, corn.

Atkinson, J. H., O'Fallon, Illinois.
"Fultz" and "Fulcaster" wheat, black oats, corn.

Ayres, A., Lansing, Michigan.
Corn.

Bagwell, N. E., Allensville, Kentucky.
"Little Willis" corn.

Bailey, M. M., Birdsall, Michigan.
Rye, oats.

Baird, A., Greenville, Ohio.
White oats.

Baker, G. G., Britton, Oklahoma Territory.
White kaffir corn.

Baker, J. W., Kymalga, Alabama.
Blue stem wheat, black rye.

Baker, Theodore, Giltner, Nebraska.
Silver white corn.

Baldwin, A., Oberon, North Dakota.
German rust-proof oats.

Barker, L. D., Pleasant Hill, Nebraska.
Black winter rye, white Swedish oats, corn.

Barnes, E. F., Bloomington, Oklahoma.
"Early Dwarf," "Yellow Paxton," "Hickory King" corn.

Barnett, R. C., Lebanon, Kansas.
"Snowflake" corn.

Barson, P. S., Clarkston, Utah.
New Zealand wheat, white oats.

Barteldes & Company, Lawrence, Missouri.
Collection of saccharine and non-saccharine sorghums for forage.

Bass, E. I., Watertown, Tennessee.
"Neal's" white corn.

Bass, J. A., Watertown, Tennessee.
"Burt" oats.

Baugh, J. W., Franklin, Tennessee.
Rye, "Burt" oats, "Fultz" and "Longberry" wheat.

Beck, W. H., Blue Springs, Nebraska.
Turkey wheat.

Beeson, H. H., New Market, North Carolina.
Blue rye, "Fulcaster" wheat.

Benecke, E., Brockfield, Wisconsin.
Manchuria barley, German rye, oats, Fife spring wheat, yellow flint hard corn.

Bennett & Millett Company, The, Gouverneur, New York.
Ground clover poultry food.

Bentley, H. L., Abilene, Texas.
Hay.

Biggs, B. D., Shippensburg, Pennsylvania.
"Wyandotte" red wheat.

Blackstock, J., Avo, Texas.
Red oats.

Blank, N. J., Pisgah, Missouri.
Black oats.

Blatchford, E. W., & Company, Chicago.
Calf, horse and poultry foods.

Block, H., St. Augusta, Minnesota.
Winter rye.

Blume, I., Blume, Louisiana.
Black rye, wheats, improved yellow corn.

Board of Trade, New Orleans, Louisiana.
Collective exhibit of rice.

Boehmke, E., Remsen, Iowa.
Clover, white and yellow corn.

Bohannon, Mr., Corvallis, Oregon.
Banner oats.

Bowles, Ruder & Weber, Afton, Missouri.
Corn, prehistoric and other varieties.

Bradstreet, H. C., Clifton, Texas.
Gold chaff, Mediterranean wheat, winter rye, rust-proof oats, corn.

Bradstreet, W. C., Clifton, Texas.
German millet.

Brey, C. G., Ursula, Oklahoma Territory.
White kaffir corn.

Brewer, J. F., Walla Walla, Washington.
Red chaff wheat in the straw.

Brittain, W., Parkman, Wyoming.
Alfalfa.

Brown, A., Greenville, Virginia.
White and yellow dent corn.

Brown, J. J., Sprague, Washington.
"Pelouse blue stem," white winter wheat, blue barley, mammoth white oats.

Brown, L., Clio, Michigan.
"Jones' Fife" winter wheat, barley, silver hull buckwheat, rye, corn.

Browning, J. A., Church Hill, Kentucky.
"Fultz," "Fulcaster" wheat, "Big Willie" corn.

Bruce, H. C., McPherson, Kansas.
"Golden Beauty" corn.

Bruch, Edward, Scapoosa, Oregon.
Rye in the straw.

Buren, John J., Cullom, Illinois.
Early yellow dent and "Silver Mine" maize, barley, white "Hunt" oats.

Brumbaugh, J. N., Mangansville, Maryland.
"Spade" wheat.

Bryan, J. L., Watertown, Tennessee.
"Bearded Fulcaster" wheat.

Burgan, L. A., Tonica, Illinois.
"Little Red" oats, corn.

Burgeson, B. O., Aurora, Nebraska.
Mammoth white corn.

Burgess, L. A., Tonica, Illinois.
German millet.

Burnett, J., Corvallis, Oregon.
"Golden Chaff," "Kinney" and white winter wheat.

Burpee, W. Atlee, Philadelphia, Pennsylvania.
Forage and grass crops, photographs.

Bussinger, W. O., Lebanon, Kansas.
"Kansas Beauty" kaffir corn.

Bybee, R. L., Leorin, Idaho.
White Russian oats.

Byers, W. S., Pendleton, Oregon.
Red chaff wheat.

Calhoun, A. A., Millersburg, Ohio.
"Seisure" oats.

Caldwell, E. W., Scottsboro, Alabama.
Mixed red and white cob, "Ohio white" corn.

California Packing Company, San Francisco, California.
Olives and olive oil.

California Paris Commission (San Francisco Produce Exchange), San Francisco, California.—Collective exhibit of cereals for export.

California Wharf House Company, Davisville, California.
"Club" wheat, barley.

Cambill, T. H., Tuscumbia, Alabama.
"Bird" oats.

Carl, E. A., Juniata, Nebraska.
Mammoth white corn.

Carlock, W. J., Huntsville, Arkansas.
"Bib" white and "Calico" corn.

Carneal, Thomas D., Livermore, California.
"White Admirable" wheat.

Carrall, J. C., Ursula, Arkansas.
White corn.

Carter, L. W., Highmore, South Dakota.
Millets and native grasses.

Chaffin, T. J., Chestnut Fork, Virginia.
Rust-proof winter oats.

Chaney, J. C., Pittston, Virginia.
Blue-stem wheat.

Chaney, J. R., Woodburn, Kentucky.
Winter oats, "Currell's prolific" wheat.

Chavez, J. M. C., Abiquiu, New Mexico.
Wheat, oats, vallo beans, Chama Pelombrosa, native Indian, West Indian calico corn.

Clemons, L. W., Davenport, Iowa.
Velvet blue-stem wheat, Iowa white dent and Iowa golden dent corn.

Clevenger, C. E., Stevenson, Virginia.
"Big white" rye, "White Western" oats, "Early Red Lyon" and "Franklin prolific" wheat.

Click, W. W., Elmwood, North Dakota.
"Fulcaster" wheat.

Cobb, J. S., Henderson, Colorado.
White wheat, "New Wampum" oats.

Coins, J. N., Omega, Oklahoma Territory.
Late French millet.

Collins, R., Summers, Arkansas.
"Everett's Hybrid" wheat.

Colliver, R., Summers, Arkansas.
Iowa mixed dent corn.

Commercial Club, Denton, Texas.
Blue-stem wheat, white corn.

Conger Brothers, Mimosa, Tennessee.
"Fulcaster" wheat, "Huffman" corn.

Coontz, J. F., & Company, Vandalia, Missouri.
"Fultz" wheat.

Cooper, C. W., Corvallis, Oregon.
White winter wheat.

Cooper, Ellwood, Santa Barbara, California.
Olive oil.

Corn Exposition of Peoria, Peoria, Illinois.
Collective exhibit of Indian corn.

Cotton, W. W., Portland, Oregon.
Wheat and oats in the straw.

Courtright, J., Walnut, Ohio.
"Best Poole" wheat, early yellow and "Riber" corn.

Cousino, I. C., Erie, Michigan.
"Red Diehl" wheat, oats.

Coutts, D., Argyle, Minnesota.
Scotch Fife wheat.

Cowan, R. T., Elmwood, North Carolina.
Improved "Fultz" wheat.

Cox, J. L., Missouri Valley, Iowa.
"Velvet blue-stem" wheat.

Craighead, W. A., & Sons, Breckinridge, Texas.
"Bald" and "Mediterranean" wheat, black rye, corn, popcorn, white kaffir corn.

Craik, David, Oketo, Kansas.
Millet, Turkey, red winter Fife wheat, oats.

Cramsey, S., Conway, Kansas.
Turkey wheat.

Crandall, E., Walla Walla, Washington.
Blue-stem wheat in the straw.

Crane, W. W., Tippecanoe City, Ohio.
Wheat, corn.

Cranston, J. F., St. Cloud, Minnesota.
Velvet blue-stem wheat, Nos. 1 and 2, white oats.

Crawford, W., Arcanum, Ohio.
White bread corn.

Creager, William H., Sumner, Iowa.
Green mountain oats in the straw and oats.

Creamer, E. L., Jr., Frederick, Maryland.
Yellow mastodon corn.

Crenshaw, J. G., Knoblick, Kentucky.
Crenshaw's white wheat.

Cress, C., Shippensburg, Pennsylvania.
Egyptian oats.

Crosthwaite, C. W., Florence, Tennessee.
Winter turf oats.

Crothers, L. M., Crothers, Pennsylvania.
"Duck bill" barley, "Gold Coin" wheat, "Golden Beauty" corn.

Crum, H. H., Frederick, Maryland.
Corn.

Culberson, C. H., Smyrna, Tennessee.
"Culbersons' white" corn.

Cullimane, J., Denison, Texas.
Black oats.

Currell, W. E., Grace Point, Virginia.
"Currell's prolific" wheat.

Currie, S., Euclid, Minnesota.
Velvet blue-stem wheat.

Dahl, A. P. R., Calera, Alabama.
Red cob and white dent corn.

Davis, A., Frederick, Maryland.
"Longberry" wheat, oats.

Davis, J. A., Buxton, North Dakota.
Improved velvet blue-stem wheat, white Russian oats, Manchuria barley.

Dawes, J. M., Marshall, Missouri.
"Fultz" wheat.

DeLand, C., Blue Springs, Nebraska.
"Deland's improved" white corn.

Denison Milling Company, Denison, Texas.
Mediterranean wheat.

Department of Agriculture, Division of Agrostology, Washington, D. C.—Collective exhibit of food for animals, grasses and forage plants and utilization.

Department of Agriculture, Division of Vegetable Physiology and Pathology, Washington, D. C.—Collective exhibit of new American varieties of export cereals.

Dickerson, J. H., & Son, Burgin, Kentucky.
Red winter "Fultz" and "Winter King" wheat.

Dickinson, The Albert, Company, Chicago.
Collection of seeds of commercial importance in the United States and in the export trade.

Diehl, E. F., Leesburg, Indiana.
White rye in the straw, rye, "Poole" wheat.

Doan, C. F., Doans, Texas.
Small golden millet, "Haws" corn.

Doan, J., Doans, Texas.
"Sumac" sorghum, corn.

Dodge, C., Norfolk, Nebraska.
Early dent "Multiplier" corn.

Dohn, C., Erie, Michigan.
"Side" oats.

Donaldson, C. S., Bowling Green, Kentucky.
Rust-proof oats.

Doub, F., Keedysville, Maryland.
"Red Warder" wheat.

Drew, C., Ardock, North Dakota.
White Russian oats, Manchuria barley.

Duell, I. S., Woodstown, New Jersey.
Blue-stem wheat, corn.

Duff, J. H. C., Fayetteville, Tennessee.
White winter oats, winter bearded barley.

Dun, Charles, Ardock, North Dakota.
Scotch Fife wheat.

Edge Brothers, Colusa, California.
Barley.

Eggart, W., Parkman, Wyoming.
"Silver Leaf" oats.

Ekman & Stow, Oroville, California.
Olive oil.

Emanuel, J. M., Wray, Colorado.
Early yellow dent corn, wheat, "Goose" oats, millet, sorghum.

Emerson, S. F., Skowhegan, Maine.
India buckwheat, white Russian oats.

Enestvedt, O. O., Belview, Minnesota.
"Minnesota No. 163" wheat.

English, B. G., Manchester, Michigan.
Rye, "Johnson" oats, "Leaming" corn, nigger wheat.

Ennis, John E., Narcoossee, Florida.
Hay.

Everitt, J. A., Indianapolis, Indiana.
"Fultz," Mediterranean wheat.

Exbine, L., Paso Robles, California.
Australian "salt bush."

Experimental Farm of Oregon Railway & Navigation Company, Portland, Oregon.—Wheat and barley in the straw.

Experiment Station of Illinois, Urbana, Illinois.
Corn stalk.

Experiment Station of North Dakota, Agricultural College, North Dakota.—Wheat in the straw.

Experiment Station, Corvallis, Oregon.
"Feise" and "Kinney" wheat, black winter oats.

Fain, W. N., Nannie, Georgia.
"Fulcaster" wheat.

Faught, A. E., Sidney, Maine.
Blue-stem wheat, two-rowed barley, white winter rye, early field oats.

Ferguson, W., Walla Walla, Washington.
Wheat and barley in the straw.

Field, J. C., Denison, Texas.
Corn.

Figard, J. W., Seward, Nebraska.
Sea Island wheat, oats, "early white prolific" rye, "Golden dent" corn.

Fitch, C. E., Alwilda, South Dakota.
Seed of cultivated forage crops.

Flowers, J. L., Colton, Washington.
"Chevalier" barley.

Foreman, J. B., Arcanum, Ohio.
"Budy" and white "Fultz" wheat.

Fox, T., Harrisonville, New Jersey.
"Fulcaster" wheat.

Frankhouser, D. C., Fawcettsgap, Virginia.
"Fultz" wheat.

Frazier, R. A., Dayton, Wyoming.
"Squaw" and flint corn.

Freeman, W., Alpine, Alabama.
"Early lay" wheat.

Gambill, T. H., Tuscumbia, Alabama.
Bearded purple-straw wheat.

Gammill, L. C., Subrosa, Arkansas.
"Harvest King" wheat, "Hickory King" and "Valentine mammoth" corn.

Gerrish, F. L., Boscawen, New Hampshire.
"White wonder" oats, "Walker" corn.

Giddings, F., Ayr, Nebraska.
"White Russian" oats.

Gillingham, G. L., Moorestown, New Jersey.
White and black mixed oats, "Winter Fife" wheat, Japanese buckwheat, corn.

Gilkey, W. T., Dayton, Oregon.
White winter oats, white spring barley and varieties of wheat, winter alsike.

Gilkey, W. T., Watsonville, California.
"Grand Norway" oats, "Canada," "Chevalier" and "Chili" barley, corn.

Glucose Sugar Refining Company, Chicago.
Gluten food for cattle and cornmeal.

Gluyas, W. R., Hoffland, North Dakota.
Seed of smooth brome-grass (bromus inermis).

Goodall, O. P., La Grande, Oregon.
Winter wheats and winter barley.

Goodell, C. J., Morocco, Indiana.
Barley, oats.

Grandin, J. L., and E. B., Mayville, North Dakota.
White Russian oats, wheat.

Greene, R., and Sutton, George, Manchester, Michigan.
"Red Clawson" wheat.

Griffin, G. M., Brighton, Colorado.
"Defiance" wheat.

Grim, J. J., Aurora, Nebraska.
"White side" oats.

Grotelmocke, H., Columbus, Nebraska.
"Turkey" wheat.

Gudyel, H. W., Princeton, Illinois.
"Little white" oats.

Hade, J. P., Greencastle, Pennsylvania.
"Spade" wheat, "Peerless" rye, "Wonder" oats, winter barley, "Golden dent" corn.

Hagar, G., Colusa, California.
California wheat.

Haines, J. J., Cribbs, Pennsylvania.
"Longberry" wheat, spring barley, American "Banner" oats.

Hammond, E. E., Olathe, Colorado.
"Defiance" wheat, white Russian oats.

Hancock, W. H., Shullsburg, Wisconsin.
"Peerless" barley, winter rye.

Hardeman, T., Davisboro, Georgia.
Bearded rust-proof oats, red-cob corn.

Hargett, S., Frederick, Maryland.
Barley, buckwheat.

Harmon, E. R., Clifton, New York.
No. 6 Mediterranean wheat, German four-rowed barley.

Harris, C. G., Marsh, North California.
"Fultz" and "Fulcaster" wheats.

Harris, J. S., Pisgah, Missouri.
"Fultz" wheat, "white gourd seed" corn.

Hawkins, B. C., Highlands, North Carolina.
Corn.

Hawley & Moody, Oasis, Michigan.
Alfalfa or Lucerne seed.

Haynes Brothers, Emporia, Kansas.
Corn.

Hays, J. B., Matson, Missouri.
Black oats.

Hays, J. H., Versailles, Kentucky.
"Fultz" wheat.

Heater, C. W., Middletown, Virginia.
Wheat, spring oats, barley, mammoth white corn.

Heideman, W. H., Kalispell, Montana.
Rape seed.

Hellbaum, F., Latah, Washington.
Wheat, barley, oats.

Henry, J. N., McHenry, Ohio.
Oregon bearded barley.

Heala, E. S., Westerville, South Dakota.
"Silver Mine" corn.

Hickman, Prof. J., Fremont, Wooster, Ohio.
Forage and grass crops. Photographs.

Hill, Charles L., Rosendale, Wisconsin.
White "Fife" wheat, white cap corn.

Hill, E. C., Anson, Texas.
Dhoura corn.

Hill, H. P., Kersey, Colorado.
"Australian Defiance" wheat, "White Russian" oats.

Hill, John, Elgin, Oregon.
"Silver chaff" white winter wheat.

Hilzwager, C., Perkins, South Dakota.
Blue-stem wheat.

Hite, M. L., Windom, Kansas.
Kaffir corn.

Hoag, Jay, Adrian, Michigan.
"Gold Coin" wheat.

Hodgin, E. N., Guilford College, North Carolina.
"Fulcaster" wheat, "Strawberry" and white flint corn.

Holms, William S., Marshall, Missouri.
Texas red rust-proof oats, "Golden Beauty" corn.

Hoover, C. C., Hagerstown, Maryland.
"Mortgage Lifter" oats.

Hopkins, Prof. A. D., Morgantown, West Virginia.
Timothy.

Hopkins, J. T., Butteville, Oregon.
Wheat in the straw.

Horsley, W. B., Rogers, Arkansas.
"Fulcaster" wheat, rust-proof and early white oats, "Strawberry" and "Willie" white corn.

Houx, Mrs. E. M., Colusa, California.
"California Club" wheat.

Howard, Hiram, Marshall, Missouri.
"Pride of Saline" and "Uncle Sam's" corn.

Hoyt, J. K., Luther, North California.
"Fulcaster" wheat, winter oats, Japanese buckwheat, "Morgan" white corn.

Hoyt, O. W., Millbank, South Dakota.
White Russian oats.

Huff, B. F., Denison, Iowa.
White Russian oats, "Sayler's Marvel" spring wheat, yellow dent corn.

Hug, H., Elgin, Oregon.
"Chili Club" and "Canada Club" mixed wheat.

Huggins, J. H., Carrollton, Texas.
"Silver Chaff" wheat, rust-proof and white spring oats, "Blue Jane" and "Strawberry" corn.

Huggins, W. A., Cave City, Kentucky.
"Silver" and "Everett's red" corn, "Fulcaster" wheat.

Hughes, M. O., Bowling Green, Kentucky.
"Fulcaster" wheat.

Hull, J. H., Langdon, Missouri.
Branching Dhoura.

Hurt, J. H., Hollywood, Alabama.
Mediterranean wheat.

Hysell, Radford, Omega, Kansas.
White kaffir corn.

Illinois Corn Growers' Association, El Paso, Illinois.
Thirty-five varieties of corn grown in Illinois.

Illinois State Grain Inspection, Chicago.
Wheat, oats, barley, rye, corn, of commercial grades.

Imboden, H., Wichita, Kansas.
Turkey wheat.

International Food Company, Minneapolis, Minnesota.
Foods for cattle.

Jackson, T. W., Prairie Point, Mississippi.
Corn, peanuts.

Jacobson, L. A., Hope, North Dakota.
Spring rye.

Jacoby, Peter, Aurora, Nebraska.
Corn.

Jennings, Mrs. S., Mayview, Missouri.
"Pride of Lafayette" rye.

Jewell Nursery Company, Lake City, Minnesota.
"Silver White" oats.

Johns, W., Thatcher, Arizona.
Australian wheat.

Johnson, D. B., Mooresville, Indiana.
Michigan amber wheat.

Johnson, D. F., Horeb, Virginia.
"Fultz" wheat.

Johnson, Samuel, Clear Spring, Maryland.
Corn.

Jolly, William, Corvallis, Oregon.
"Little Club" wheat, white Russian oats.

Jones, A. N., Newark, New Jersey.
Wheat heads, threshed grain.

Kaufman, J. C., Dauberville, Pennsylvania.
China wheat, white rye.

Kearcher, L. M., Milbank, South Dakota.
Velvet blue-stem wheat.

Keefe, D. G., Maine, Minnesota.
"Blue-stem" wheat, "Lincoln" and white Russian oats, Minnesota corn.

Keeny, J. W., Erie, Michigan.
Corn.

Kenney, S. H., & Son, Morristown, Minnesota.
Minnesota "Early Amber" sugar cane.

Kerr, G. G., Newark, Delaware.
"Deitz," "Longberry," "Fulcaster" wheat, "Golden Dent" corn, grass seed.

Kiger, R. C., Corvallis, Oregon.
Wheat in the straw.

Kilborne, F. L., Kelloggsville, New York.
Wheat, white oats, barley, corn.

Kilen, A. R., Brownsburg, Minnesota.
Barley, velvet blue-stem wheat, oats, corn, timothy.

Killer, J. S., Minden, Louisiana.
Red rust-proof oats, corn, fescue grass.

Kohler, John, Morrisonville, Missouri.
Common red clover.

Kohler, W. A., Leesburg, Indiana.
Buckwheat.

Koiner, W. F., Ladd, Virginia.
Early yellow corn.

Koser, D. C., Shippensburg, Pennsylvania.
Mediterranean wheat.

Kramer, G., Strausstown, Pennsylvania.
White barley.

Lake Shore & Michigan Southern Railway Company, Toledo, Ohio.—Winter wheat of commercial grades.

Lamb, A. H., Oak Center, Minnesota.
Manchuria barley.

Lambie, W., Mayview, Washington.
"Palouse" blue-stem, "Little Club" wheat, barley.

Lampton, A. P., China Grove, Mississippi.
Mixed yellow and white corn, peas.

Lampton, K. F., China Grove, Mississippi.
Oats, corn.

Landis, J. M., Marlowe, West Virginia.
Red-chaff wheat, beardless barley.

Lang, Jacob, Hope, North Dakota.
Broom corn.

Lankford, C. E., Lexington, Missouri.
"Pfleger" corn.

Later, P., Harrisville, Utah.
"Taos" wheat, corn.

Lawrence, D. G., Burnett Junction, Wisconsin.
"Child's Golden Superb" corn.

Leckenby, A. B., Portland, Oregon.
Collection of northwestern forage crops and grasses.

Lehnert, G. A., Tuscumbia, Alabama.
"Longhead" bearded barley.

Lenz, Henry, Tuscumbia, Alabama.
"Miller" rye, wheat, corn.

Lewis, J. N., Lima, Arkansas.
Red bearded wheat, corn, oats.

Lewis, O. K., Arlington, Nebraska.
Velvet-chaff wheat.

Loseke, G., Columbus, Ohio.
White Russian oats.

Louden, W., Maine Prairie, Minnesota.
Corn.

Lowman, W. M., Hastings, Nebraska.
Mammoth white corn.

Lowry, J. G., Cartersville, Georgia.
"Fulcaster" wheat, "Gourd Seed" corn, California winter oats, Georgia rye.

McAllister, J. W., Lagrange, Oregon.
"Forty-fold" wheat.

McCardells, A. C., Frederick, Maryland.
"McCardell's Ruddy" wheat, corn.

McClendon, R. T., Lisbon, Louisiana.
Corn.

McCloud, J. A., Lowell, Arkansas.
"Everett" wheat.

McCoy, David, Solomon, Kansas.
Black-chaff kaffir corn.

McCutchen, W. W., Scottsboro, Alabama.
"Boughton" wheat.

McHenry, O., Modesto, California.
"Golden Gate Club" and white Australian wheat, black rye, white dent corn.

McNeal, J. M., McRea, Georgia.
German millet.

Magic Food Company, St. Louis, Missouri.
Stock and poultry foods.

Manget, John A., Marietta, Georgia.
Forage crops.

March, John A., Shullsburg, Wisconsin.
Corn.

Marcks, A., Lexington, Missouri.
Mediterranean wheat, black Texas oats, "Charles" white corn.

Mariner, F. C., Northville, South Dakota.
Mediterranean Fife and Scotch Fife wheat, winter rye.

Markel, E., Monticello, Illinois.
Popcorn.

Markert, J. M., Parkman, Wyoming.
White hull-less barley.

Markham, R., Clear Lake, Minnesota.
Corn.

Martin, E. J., Nannie, Georgia.
Maryland flint wheat.

Martin, H. M., Masontown, West Virginia.
Black Spanish, red rust-proof oats, red Russian wheat.

Martin, T. B., Fairforest, South Carolina.
Dewey oats, purple-straw wheat.

Mason, E. J., Centerville, Georgia.
Purple-straw wheat, rye, oats, corn.

Matson, W. H., Matson, Missouri.
Black rye, eight-rowed "Matson" yellow, "St. Charles" white corn.

Mathews, Owen, Allen, Texas.
Golden-chaff, Niacaragua wheat, oats, soft-grained stock corn.

Matthews, W. R. H., Southport, Tennessee.
"Fultz" wheat, "Burt" oats, "Tennessee Dent" corn.

Maynard, E. A., Ennis, Montana.
Barley.

Maynard, Frank, Jr., Jackson, Michigan.
Hybrid Mediterranean wheat.

Messenburg, F., St. Cloud, Minnesota.
White Russian oats.

Metcalfe, J. N., Silver Hill, New Mexico.
Seeds, specimens, and hay of native grasses and forage plants.

Meyer, F. W., Bonney, Texas.
Hay, hay seed.

Miller, Adam, Jr., Tonica, Illinois.
Corn, "White Banner" oats.

Miller, C., Sapulpa, Indian Territory.
"Poole" wheat.

Mitchell, A. E., Clearwater, Minnesota.
"Side" oats.

Moffet, F. L., Chillicothe, Kansas.
Corn, millet, oats.

Morningstar, P. H., Utica Mills, Maryland.
"Long Derby" wheat, "White Hominy" corn.

Morrin, J. & L., Erie, Michigan.
Barley.

Morris, J. F., Ireton, Iowa.
Velvet blue-stem wheat, "Champion Side" oats, "Mansard" barley, corn.

Mudges, F. E., La Salle, Illinois.
Corn.

Mumma, A. L., Mechanicsburg, Ohio.
Corn.

Murphy, S. H., Caledonia, Minnesota.
"Blue Peter" pea.

National Rice Milling Company, New Orleans, Louisiana.
Rices, rice bran, rice polish, waste products produced in milling rice; grass and forage plants.

National Starch Manufacturing Company, The, New York.
Corn oil, gluten food, gluten meal, corn cake, corn.

Naylor, J. L., Moscow, Idaho.
Red Russian, "Little Club" wheat, barley.

Neal, U. W., Watertown, Tennessee.
Rye, "Fultz" wheat.

Neely, F. L., Wayne, Nebraska.
Fife wheat.

Neff, A. C., Chewsville, Maryland.
"Neff's" corn.

Neff, John, Tuscumbia, Alabama.
Corn.

Nelson, C. C., Plainsburg, California.
"Golden Gate Club" wheat, barley, rye, corn.

Nelson, Mr., Coleman, Texas.
German millet.

Nelson, N., Colfax, Washington.
Barley, oats.

Nelson, R. C., Woodbine, Texas.
"Fulkerson" Mediterranean wheat, oats, corn.

Newland, W. T., Santa Ana, California.
Cornstalks, 18 feet long.

Newton, G. G., Corvallis, Oregon.
Gray oats.

Nicodemus, C. A., Walkersville, Maryland.
Australian, Rocky mountain wheat, barley, "Golden Beauty" corn.

Niemoller, A. F., Stitt, Kansas.
Red Texas oats.

Noyes, G. R., Beaver Dam, Wisconsin.
Russian Fife wheat.

Oelrich, Herman, Columbus, Nebraska.
Corn.

Oelrich Herman, & Brothers, Columbus, Nebraska.
"Early Olderburges" oats.

Oliver, J. C., West Charleston, Vermont.
Barley, oats, buckwheat, corn.

Orbra, Charles, Sapulpa, Indian Territory.
White kaffir corn.

Oregon Railroad & Navigation Company, Portland, Oregon.
Collective exhibit of wheat, barley and rye in the straw.

Overstreet, J. R., Franklin, Indiana.
"Overstreet Peerless," "Overstreet Wonder," "Speckless Wonder" corn.

Pacific Coast Elevator Company, Portland, Oregon.
Wheat of commercial grades.

Parker, W. N., Worthing, South Dakota.
German millet.

Parker, W. U., Worthing, South Dakota.
"Side," "Northern Scotch White" oats, corn.

Parkinson, W. W., Pleasant Grove, Minnesota.
Blue-stem wheat; red winter, early white barley; early white and New Zealand oats; corn.

Parks, J. S., Pleasant Mounds, Minnesota.
"Red Blaze" corn.

Pattison, A. S., Marengo, Michigan.
"Red Clawson," "Dawson's Golden Chaff," nigger wheat, white Russian oats.

Patton, R. H., Watertown, Tennessee.
"Fultz" wheat.

Paugh, E., Ennis, Montana.
"Australian Club" wheat.

Pawlich, J., Crete, Nebraska.
Turkey wheat.

Payne, J. C., Rockville, Minnesota.
Corn.

Peacock, A. L., Higginsville, Missouri.
"Red Fultz" wheat.

Pearce, T. M., Manor, Maryland.
"Howard's" barley, buckwheat, "White Dent" corn.

Peddicord, John, Wichita, Kansas.
"Golden Beauty" corn.

Peeler, I., Center, Mississippi.
Corn.

Perry, William, Aurora, Nebraska.
Corn.

Peterson, W. C., Longshore, South Carolina.
Wheat, oats, corn.

Philleo, W. W., Ayr, Nebraska.
Popcorn.

Phillips, J. M., & Son, Mercersburg, Pennsylvania.
Beardless barley, corn.

Phillips, P. R., Huntsville, Arkansas.
"Orange" wheat.

Phillips, W. R., Green Forest, Arkansas.
Early white oats, "Wild Goose" corn.

Pillsbury-Washburn Flour Mills Company, Minneapolis,
Minnesota.—Wheat, commercial grades.

Pittman, D. W., Lewiston, Illinois.
"Fultz" wheat, white oats, rye, corn.

Plasterer, J. B., Shippensburg, Pennsylvania.
"Rudy" wheat.

Plattner, J., Scotland, South Dakota.
Corn.

Porcher, W. D., Charleston, South Carolina.
Gold seed head, white seed head, rice.

Porter, E. A., Bowling Green, Kentucky.
White "Runer" corn.

Poulson, P., Richfield, Utah.
"Black Spanish" oats.

Price, H. J., Delta, Colorado.
Odessa wheat, white Russian oats.

Ranous, Mrs. L. P., Millbank, South Dakota.
Hard Fife wheat.

Ratcliff, J. T., Richmond, Indiana.
Rye in the straw.

Ratcliff, W. S., Richmond, Indiana.
"New Columbia" wheat, oats.

Ray, Andrews, & Company, Salt Lake, Utah.
Alfalfa seed.

Record, J. H., Decatur, Illinois.
"Clydesdale" oats.

Rediger, C., Aurora, Nebraska.
Turkey wheat.

Reeder, E., New Hope, Pennsylvania.
Wheat, oats, buckwheat, corn.

Reichard, R., Arcanum, Ohio.
Corn.

Reith, J., Jr., Davisville, California.
Barley.

Rene, W. T., Neche, North Dakota.
Scotch barley, Scotch Fife wheat, white Russian "Squaw" corn, oats.

Renk, W. F., Sun Prairie, Wisconsin.
"Lincoln" oats.

Reah, S., Broad Fording, Maryland.
"Black Tartarian" and "Green Mountain" oats.

Reynolds, E., Banksville, New York.
"Bald blue-stem" bearded wheat, winter rye.

Richardson & Company, Chicago.
Wheat, corn.

Richardson, Thomas V., Phoenix, Maryland.
"Johnson's Yellow" corn.

Richmond, John F., Richmond, Florida.
"Beggar weed" hay.

Richmond, O., Tyndall, South Dakota.
Oats, barley, "Sure Crop" corn.

Rickard, E. T., Grinnell, Iowa.
Corn.

Rine, J. M., Wells, West Virginia.
"Red Clawson" wheat, white Russian oats, "Early Dent" corn.

Roatcap, Mrs. B. A., Olathe, Colorado.
Nebraska white oats, "Angel of Midnight" corn.

Roberts, Prof. I. P., Ithaca, New York.
Forage and grass crops; photographs.

Roberts, J., Iona, Michigan.
Rye.

Robertson, J. T., Florence, Tennessee.
"Selts improved" corn.

Robinson, Alexander McK., Ada, Texas.
Velvet bean seed.

Robinson, A. S., Pleasant Mounds, Minnesota.
Velvet blue-stem wheat.

Robinson, J., Pleasant Mounds, Minnesota.
Velvet blue-stem wheat, black winter rye.

Roderuck, G., Frederick, Maryland.
"Fulcaster" wheat.

Rogers, G. W., Laporte, Indiana.
Corn, rye, barley, oats.

Rohilly, R. H., Lake City, Minnesota.
Barley.

Root & Cain, Versailles, Kentucky.
"Terry Fultz" wheat.

Ross Brothers, Seed House, Wichita, Kansas.
Cornstalk, white kaffir corn.

Ross, J. R., Doans, Texas.
"Rose Prolific" corn.

Rowe, Frank, Shullsburg, Wisconsin.
"Snow Flake" corn.

Ruppe, A., Pendleton, Oregon.
Blue-stem wheat, "Cox," red-chaff and "Sonora" wheat.

Russell, D. B., Shippensburg, Pennsylvania.
"Deitz" wheat.

St. German, N. C., Corvallis, Oregon.
Wheat in the straw.

Salisbury, Mrs. Lydia A., Blue Mound, Illinois.
"White Squaw" corn.

Salzer, J. A., Seed Company, La Crosse, Wisconsin.
Winter wheat.

Sawyer, J. J., Alpine, Alabama.
Purple-stem wheat, blue-stem rye.

Scarborough, J. K., Payson, Illinois.
"Fultz" wheat, northern white oats, "Feeder's Favorite" white corn.

Scheer, Frank, Arlington, Nebraska.
"White Pearl" corn.

Schiermier, W., Cappeln, Missouri.
"Fultz" wheat.

Schindel, S. M., Hagerstown, Maryland.
New variety of "Blue Ridge" wheat, wheat in the straw.

Schriber, H. F., Colfax, Washington.
"Bonanza" oats.

Schuttler & Hotz, Chicago.
"White Dent" corn.

Scott, J., Plain City, Ohio.
"Fultz" wheat, Michigan amber wheat straw.

Scott & Magner, San Francisco, California.
Stock foods, meal, baled hay.

Seaver Brothers, Colusa, California.
Corn.

Seitz, J., Tiffin, Ohio.
"Fultz," "Gold Coin" wheat, "Lentz and Seiples' Hybrid" corn.

Seville Packing Company, New York.
Olives, "pim-olas," olive oil.

Shaffner, Mulberry, Tennessee.
"Evergreen" broom corn.

Shaw, J. F., West Hampden, Maine.
"Lost Nation" wheat, "White Hogan" oats, large Canada corn.

Sheldon, C. H., Minnewaukon, North Dakota.
Scotch Fife wheat.

Shelley, G. E., Manor, Maryland.
"Fultz" wheat.

Shelton, D. A., Rome, Georgia.
Red rust-proof oats.

Shepard, Prof. James H., Brookings, South Dakota.
Forage crops, photographs.

Shepperson, Daniel W., Langdon, Missouri.
Branching Dhoura corn, rye, oats.

Sherfey, C. W., Nebraska City, Nebraska.
"Yellow Turkey" wheat, "Silver Mine" white oats, "Prolific White," red cob and other corn.

Shoemaker, P. H., Freeport, Minnesota.
"Big Four" oats.

Shofner, L. M., Mulberry, Tennessee.
"Poole" wheat.

Shouse, S. H., Versailles, Kentucky.
"Kentucky Blue Grass" corn.

Showalter, S. J., Ladd, Virginia.
Wheat, mixed Virginia milling.

Shutts, W., Wichita, Kansas.
"White Pearl" corn.

Siljan, C. H., Madison, Minnesota.
"Golden Giant" oats.

Simpson, J. B., Dallas, Texas.
Nicaragua wheat.

Simpson, J. B., and Gibbs, B., Dallas, Texas.
Nicaragua wheat.

Simpson, J. E., Norfolk, Nebraska.
Corn.

Slade, C. C., Mabor, Maryland.
"Gold Berry" red wheat.

Smith, A. T., Lexington, Missouri.
"Fultz" wheat.

Smith, F., Brighton, California.
"White Sonora" wheat.

Smith, G. A., Yankton, South Dakota.
Peas, timothy, velvet blue-stem wheat, oats, corn, popcorn, barley.

Smith, H. C., Fremont, Ohio.
"Poole," "Rudy Valley" wheat, "Potato" and "Michigan Wonder" oats, corn.

Smith, J. D., Casselton, North Dakota.
Red Mediterranean wheat.

Smith, Julius P., Livermore, California.
Olive oil.

Smith, L. W., Prairie Point, Mississippi.
"Mosby White" corn.

Smith, O., Sapulpa, Indian Territory.
"Fultz" wheat.

Smith, S. A., Blue Springs, Nebraska.
Black rye, "Side" oats.

Smith, W. D., Anthon, Texas.
Early amber sorghum, wheat, oats, corn, "Big German" millet.

Smurthwaite, A., Produce Company, Ogden, Utah.
Alfalfa and timothy seed.

Snowden, F., Ashton, Maryland.
"Fultz" wheat, rye, oats, corn.

Sommerkamp, R. P., Kamp, Alabama.
Upland rice.

Southern Cotton Oil Company, Memphis, Tennessee.
Cotton seed products used for food.

Southern Railway Company, Washington, D. C.
Wheat, oats and rye straw.

Soverhill, S. G., Tiskilwa, Illinois.
Early Swedish oats, barley, corn.

Spencer, E. E., Edgar, North Carolina.
White winter oats.

Spenker, James F., Riverbank, California.
Corn.

Sprague, H., Ionia, Michigan.
"Dawson's Golden Chaff" wheat.

Spratt's Patent, Limited, New York City.
Prepared foods for dogs, poultry, game.

Sprawls, W. L., Burk Place, Louisiana.
Corn.

Staples, L. O., St. Joseph, Minnesota.
Bearded spring barley.

Steffen, A., Grundy Center, Iowa.
Black early white oats, barley, rye.

Stephen, W. F., Harrisonville, Missouri.
Timothy.

Stephens, T., Malad City, Idaho.
"Odessa Fall," "Spring Sonora," "White Amber," "White Club" spring wheat, "Potato" and "White Side" oats.

Stewart, P. M., Woodstown, New Jersey.
"Golden Hominy" corn.

Stine, Fred, Walla Walla, Washington.
"Little Club" wheat, straw.

Stinson, R., Colusa, California.
Egyptian corn.

Stokes, W. H., Watertown, South Dakota.
Maize, velvet blue-stem wheat, oats.

Stouffer, J., Hagerstown, Maryland.
"Lancaster," "Dietz," "Red Wonder" wheat, "Stauffen's" yellow dent corn.

Strom, H. H., Hillsboro, North Dakota.
"Hayne's Blue-Stem," "Saskatchewan Fife" wheat, Russian white oats.

Stuart, J. A., Lyndhurst, Virginia.
Mixed "Fultz" and "Fulcaster" wheat, rye, corn.

Stuckey, J. L., Wichita, Kansas.
"Big May" wheat.

Swanders, E. H., Wood, Ohio.
"Golden Chaff" wheat.

Taft, Austin, S., Weston, Ohio.
Clover, barley, oats, wheat, corn.

Talant, A. W., Cuba, Georgia.
Corn.

Talant, F. H., Cuba, Georgia.
"Turf" oats, "Red Fall" wheat.

Tallman, H. B., Tecumseh, Michigan.
"Rudy" wheat, "Silver Hull" buckwheat, corn.

Taylor, N. H., Henderson, Colorado.
Corn.

Taylor, P. H., Harrisonville, Missouri.
Texas oats, blue-stem wheat, clover, timothy, corn.

Tegt, Mrs. E., Arlington, Nebraska.
"White Russian Side" oats.

Templeton, W. E., Ursula, Arkansas.
"Fulcaster" wheat.

Tenney, S. A., Newport, New Hampshire.
"Mortgage Lifter" oats, "Early Walpole" corn.

Thomas, Samuel, Marshall, Missouri.
Mammoth white corn.

Thorburn, J. M., & Company, New York City.
Grain, ensilage and fodder corn, corn.

Towson, W. P., Hagerstown, Maryland.
"Fultz" wheat.

Trumbull & Beebe, San Francisco, California.
Legumes, grass, clover and other seeds.

Trump, W., Arcanum, Ohio.
Oats.

Tucker, E. F., Araby, Maryland.
"Fulcaster" wheat, "Golden Beauty" corn.

Turner, G. W., Fair Forest, South Carolina.
"Turf" oats.

Underwood, S. G., Council Bluffs, Iowa.
White Russian oats, oats in the straw.

Union Oil Company, 204 Carondelet St., New Orleans, Louisiana.—Cotton seed cake, meal, hulls; cotton seed cake, cotton seed meal, bolted or unbolted; cotton seed hulls for feeding and fertilizing.

Vaden, J. H., Laurel Grove, Virginia.
"Currell's Prolific" wheat.

Van Slyke, A., Ionia, Michigan.
Oats.

Venable, A. R., Farmville, Virginia.
"Bearded Fulcaster," "Currell's Prolific," "Fultz" wheat.

Vine, Emory, Miles City, Montana.
Plants and seed of alfalfa, smooth brome and native grasses.

Voorhees, Dr. E. B., New Brunswick, New Jersey.
Forage crops and methods of making ensilage. Photographs.

Vorce, H., Muir, Michigan.
"Signal" wheat.

Vosbrink, George P., 69 S. Water St., Chicago.
Bird seeds, food for canary birds.

Wagner, W., Parkman, Wyoming.
"English Fife" wheat.

Waite, W. S., Wartrace, Tennessee.
Peas, "Fulcaster" wheat, corn.

Walden, W. A., Huntsville, Arkansas.
Wheat, oats.

Waldron, C. A., Ionia, Michigan.
"Hathaway" dent corn.

Walker, W. P., Griffin, Georgia.
Red and purple straw wheat.

Walters, J., LaSalle, Michigan.
Hybid Mediterranean wheat.

Walters, Moses, Trickham, Texas.
African and German millet, "Red Top" sorghum, wheat, oats, corn.

Walton, I. N., Allensville, Kentucky.
"Gill" wheat, "Improved Willis" corn.

Warner, G. E., Clearwater, Minnesota.
"Scotch Fife" wheat.

Warner, H. C., Forestburg, South Dakota.
Millets and native grasses, wheat, rye, "Nepaul" hull-less barley, oats, corn.

Watson, D. A., Lebanon, Kansas.
"Golden Gem" corn.

Weirick, G. S., Wichita, Kansas.
Texas red oats.

West Point Mill Company, Charleston, South Carolina.
Rice, rice straw.

Whatley, S. J., Nannie, Georgia.
"Turf" oats, "Little Red Cob" corn.

Wheeler, T. C., Watertown, Tennessee.
Corn.

White, E. M., Hagerstown, Maryland.
"Fulcaster," "Fultz" wheat.

White, J. A., Hope, North Dakota.
Wheat, velvet blue-stem, "Scotch Fife."

Whiteley, John, Greenville, Ohio.
Wheat.

Whitesell, J. C., Elon College, North Carolina.
"Kivit" and "Fulcaster" wheat, "Dexter" winter rye, oats, "Holt Wilhide" corn.

Whitney, Charles, Walla Walla, Washington.
White oats in the straw.

Whitney-Noyes Seed Company, The, Buffalo, New York City.
Collection of clover and other seeds cleaned by special process.

Whitten, Trickham, Texas.
"Red Top" sorghum.

Wing, J. E., Mechanicsburg, Ohio.
Beardless barley.

Wingo, J. W., Montrose, South Carolina.
"Boughton" wheat, "Baldwin white" corn.

Williams, Henry, Spring Ranch, Nebraska.
"Red Club" wheat.

Williams, P. N., Salem, North Carolina.
"Beardless Fulcaster" wheat, rye, black spring oats, white corn.

Wilson, James, Secretary of Agriculture, Washington, D. C.
Collective exhibit of manufactures from corn.

Wilson, John A., Chestnut Park, Virginia.
Mammoth white corn.

Wilson, J. H., Kenton, Tennessee.
"Little May" wheat, "Willis" corn.

Wolfrum, J. G., Bunceton, Missouri.
White rye.

Wood, T. W., & Sons, Richmond, Virginia.
Forage and grass crops, wheat, rye, barley, oats.

Wright, E. H., Salem, Indiana.
"Improved Leaming" corn.

Wright, R., Summers, Arkansas.
Corn.

Yates, J., Colusa, California.
White barley.

Young, A. P., Lexington, Missouri.
"Rough and Ready" corn.

Young, Rufus, Lexington, Missouri.
"Sugar" corn.

Yowell, P. J., Fremont, Kansas.
Corn.

Yunker, P. N., Lemitar, New Mexico.
Barley, wheat, oats, maize.

Zeller, W. N., Shippensburg, Pennsylvania.
Mediterranean wheat.

CLASS 40.

ANIMAL FOOD PRODUCTS.

American Condensed Milk Company, San Francisco, California.—Milk, condensed, evaporated.

Armour & Company, Chicago.
Butter, frozen eggs.

Borden's Condensed Milk Company, New York City.
Condensed milk, evaporated cream, condensed coffee.
Gail Borden's "Eagle" brand condensed milk.
Borden's "Peerless" brand evaporated cream.
Borden's "Eagle" brand condensed coffee.

Dairymen's Union, San Francisco, California.
Milk, cream, butter.

De Land, A. D., Sheboygan, Wisconsin.
Cheese.

Department of Agriculture, U. S. A., Dairy Division, B. A. I., Washington, D. C.—Collective exhibit of dairy products, milk, cream, butter and cheese.

CONTRIBUTORS.

Briarcliff Farms, Briarcliff Manor, New Hampshire.—Butter.
Brush, Dr., New York.—Kumys.
Candor, John R., Pittsford, Vermont.—Butter.
Casper, P. H., Nicholson, Wisconsin.—Butter.
Chandler and Rood Company, Cleveland, Ohio.—Butter.
College Creamery, Ames, Iowa.—Butter.
Dawley, F. E., Fayetteville, New York.—Butter.
Elgin Creamery Company, Chicago.—Butter.
Embich, Chas. W., Lancaster, Ohio.—Butter.
Farmers' Mutual Creamery, St. Johnsbury, Vermont.—Butter.
Franklin, Mrs. W. A., Vernon, Vermont.—Butter.
Haggdahl, Sam, New Sweden, Minnesota.—Butter.
Hampton Co-operative Creamery, Easthampton, Massachusetts.—Butter.
Hermanson, Hans, Scandinavia, Wisconsin.—Butter.
Hoards' Creameries, Fort Atkinson, Wisconsin.—Butter.
Howard, J. F., Haverhill, Massachusetts.—Butter.
Karlsen, Jacob, Monroe, Wisconsin.—Butter.
La Grange Creamery, La Grange, Georgia.—Butter.
Lawrence, W. A., & Son, Chester, New York.—Butter.

McLarens, A. F., & Company, Detroit, Michigan.—Butter.
Matzoon, Y. T., Company, New York.—Matzoon.
Minnesota Dairy School, Columbus, Ohio.—Butter.
Monadnock Farms, Monadnock, New Hampshire.—Butter.
Montague Creamery, Montague, Massachusetts.—Butter.
Norton, Edward, Goshen, Connecticut.—Butter.
Ohio Dairy School, Rogersville, Ohio.—Butter.
Reynolds, A. C., New York.—Butter.
Rice, E. S., Triumph, Ohio.—Butter.
Rice, H. W., Westford, Vermont.—Butter.
Root, C. P., Gilbertsville, New York.—Butter.
Silver Lake Co-operative Creamery, Wisconsin.—Butter.
Sondergaard, H. T., Litchfield, Minnesota.—Butter.
Springbrook Creamery, Rockville, Connecticut.—Butter.
Vernon Creamery, Rockville, Connecticut.—Butter.
Wells River Creamery, Vermont.—Butter.
Western Newark Creamery Company, Wisconsin.—Butter.
Windsor Creamery, Windsor, Connecticut.—Butter.

Fairfield Dairy Company, The, Montclair, New Jersey.
Photgraphs; methods of supplying milk to cities.

Hall, W. A., Bellows Falls, Vermont.
Collection of specimens of the by-products of dairying.

Harvey, Fred, Galt, California.
Milk, cream, butter and cheese.

Helvetia Milk Condensing Company, Highland, Illinois.
Highland brand cream, evaporated.

Lamont, G. Fred, St. Louis, Missouri.
Eggs, crystallized, oil of eggs, egg food.

Maine Condensed Milk Company, Whitefield, New Hampshire.—Condensed milk.

New York State Commission to the Paris Exposition, Lowville, New York.—Butter, creamery, dairy and fancy; cheese, factory and fancy. Collective exhibit.

CONTRIBUTORS.

Babcock, R. H.—Cheese.
Baumest, A. X., & Company.—Cheese.
Bent, R. H.—Buter.
Briarcliff Farms.—Butter.
Cook, A. & H. E.—Cheese.
Dawley, F. E.—Cheese.
Dunaway, F. P.—Cheese.
Goodrich, D. A.—Cheese.
Hall, W. W.—Cheese.

Meridale Company.—Butter.
Norton, Robert, & Company.—Cheese.
Rockdale Creamery.—Butter.
Rosemary Creamery.—Butter.
Underhill, Stephen.—Cheese.

Pacific Coast Condensed Milk Company, Seattle, Washington.
Milk, condensed.

Pacific Creameries, San Francisco, California.
Milk, cream, butter, cheese.

Russell Cream Company, The, San Francisco, California.
Milk, cream, butter, cheese.

St. Charles Condensing Company, St. Charles, Illinois.
Unsweetened and sterilized evaporated cream.

St. Louis Dairy Company, St. Louis, Missouri.
Photographs; method of handling milk supply in a city.

Simpson, McIntire & Company, Boston, Massachusetts.
Butter, creamery.

Swift & Company, Chicago, Illinois.
Edible animal oils and fats.

Vermont Condensed Milk Company, Richmond, Vermont.
Milk, condensed.

Walker-Gordon Laboratory Company, Boston, Massachusetts.
Milk, modified; milk products.

CLASS 41.

INEDIBLE AGRICULTURAL PRODUCTS.

Abney, Z., Prattville, Alabama.
"Dixon" lint cotton.

Adam's Cotton Company, Charleston, South Carolina.
Upland middling lint cotton.

Addison, J. C., Ruddell, South Carolina.
"Peterkin" lint cotton and cotton seed.

Adger, Joseph E., Hughes Spur.
Short staple cotton for hill land.

Adkins, William, Auburn, Alabama.
"Truitt" lint cotton.

Advance Gin & Mill Company, Vicksburg, Mississippi.
"Allen's Hybrid" cottons, "de-lint" and "linters" from seed after ginning.

Agricultural Experiment Station of Alabama, Auburn, Alabama.—"King" cotton seed.

Agricultural Experiment Station of Georgia, Experiment, Georgia.—Ten varieties of cotton.

Agricultural Experiment Station of Mississippi, Agricultural College, Mississippi.—Cotton.

Agricultural College of Oregon, Corvallis, Oregon.
Shropshire and Cotswold wool.

Alexander, William D., Croft, North Carolina.
White cluster lint cotton.

Alexander, J. F., Britton, Texas.
Mammoth Seed Storm-Proof cotton.

Allen, R. B., Midlothian, Texas.
"Goose Egg" cotton.

Allison, S. B., New Orleans, Louisiana.
Ramie stalks and fibre, prepared by Allison machine and process.

American Cotton Oil Company, New York.
Cotton seed oils, cake meal, linters and soap.

American Ginning Company, Philadelphia, Pennsylvania.
Sea Island cotton, ginned by Prior roller gin.

Anderson, L. L., Roberta, Indian Territory.
"Storm-Proof" and green seed cottons.

Appett's, William, Sons, Hallettsville, Texas.
Cotton.

Arnim, B. F., Hallettsville, Texas.
"Meyer's" lint cotton.

Arthur, W. A., & Company, Texarkana, Texas.
Cottons.

Ashford, W. R., Rockton, South Carolina.
"King's" lint cotton.

Bailey, J. S., Raleigh, North Carolina.
"Williams" and "Davis" lint cottons.

Baker, Sam, Woodson, Mississippi.
"Girard" lint cotton.

Baker & Chapman, Rio Vista, Texas.
German variety of lint cotton.

Bankinson, W. S., Yokena, Mississippi.
"Allen Hybrid" and "China Prolific" cotton.

Barbee, J. Y., Ripley, Tennessee.
Cotton seed.

Barper, William Gordan, Hemphill, Texas.
Cotton.

Bates, R., Jackson, South Carolina.
"Bates'" poor-land and "Little Brown" cotton seed.

Bates & White, Nassau, Iowa.
Delaine wool.

Battle, R. B., Raleigh, North Carolina.
Cotton.

Battle, M. J., Whitakers, North Carolina.
"Extra Prolific" improved lint cotton.

Baxter, C. W., Hopedale, Ohio.
Blacktop Delaine merino wool.

Bean, Tarleton H., Washington, D. C.
Alaska wool.

Beck, W. S., Coleman, Texas.
Delaine merino wool.

Bedell, E. I., Mound, Texas.
"Bedell" lint cotton.

Bell, J. C., Renio, South Carolina.
"Truitt" lint cotton.

Bell, W. W., Manley, Minnesota.
"North Star" wool.

Bell & Moore, Red Bluff, California.
Three-fourths blood merino wool.

Bendat, L., McComb City, Mississippi.
"Upland Long Staple" cotton.

Benton, S. M., Beaufort, South Carolina.
Sea Island lint and seed cotton.

Berry, J. L., Hampton, Georgia.
"Berry Early Big Boll" lint cotton; branches of cotton covered with open bolls.

Beyer, George, Poughkeepsie, New York.
National Delaine wool.

Biers, Rev. J. T., Round, South Carolina.
"Peterkin" lint cotton.

Billings Farm, Woodstock, Vermont.
South Down wool.

Binson, William E., Charleston, South Carolina.
Sea Island cotton.

Bishop, M. A., Madison, Alabama.
"King" lint cotton.

Blakeney, J. C., Shawnee, Oklahoma.
"Ounce Boll," "Sea Island," "Storm-Proof" lint cottons.

Blanchard & Folsom, Mound, Texas.
"Bedell's Best" lint cotton.

Bogwell, Hardy B., Garner, North Carolina.
Cotton.

Booth, J. B., Paris, Texas.
"Bryant" lint cotton.

Bouchelle, E. F., Boligee, Alabama.
Common Alabama cotton.

Braden, B. T., Paris, Texas.
Cotton.

Braden, C. C., Paris, Texas.
"Cock's" improved lint cotton.

Braughton, Joseph T., Garner, North Carolina.
Cotton.

Breazeale Brothers, Bermuda, Louisiana.
"Peterkin" cotton.

Breda, J., Ernest, Natchitoches, Louisiana.
Cotton.

Brice, A. H., Woodward, South Carolina.
"Peterkin" improved lint cotton.

Bryant, T. W., Midlothian, Texas.
"Storm-Proof" cotton.

Buttrill, Thomas H., Jackson, Georgia.
Cotton.

Byrd, A. G., Omega, Oklahoma.
"Nadagorish" silk cotton seed, "Pettit" Gulf seed.

Byrd, M. T., Roxie, Mississippi.
Upland lint cotton.

Calcots, Allen C., Ruston, Louisiana.
"King" cotton.

Caldwell, L. H., Lumberton, North Carolina.
"Big Boll" and common cottons.

Callison, J. W., Greenwood, South Carolina.
"Improved King" lint cotton.

Canty, John, Fort Mitchell, Alabama.
"King" cotton seed.

Caperton, W. P., Adona, Arkansas.
"Big Boll" lint cotton.

Capps, T. W., Geneva, Alabama.
"Truitt's Big Boll" lint cotton.

Carpenter, John W., Batesville, Ohio.
National Delaine merino wool.

Carter, J. J., Copeland, South Carolina.
"Peterkin" lint cotton seed.

Cary, F. M., Seneca, South Carolina.
"Peterkin" lint cotton.

Cary, Robert A., White Pond, South Carolina.
"Peterkin Cluster" lint cotton.

Casey, T. F., Oglesby, Texas.
"Ounce Boll" lint cotton.

Cathcart, S. M., Rehoboth, Alabama.
"Cathcart's Improved Cluster" lint cotton.

Chamber of Commerce, Los Angeles, California.
California cotton in the boll.

Chandler, R. C., Stokes, Mississippi.
"Rodger" lint cotton.

Chaplin, R. W., Jr., Rantowles, South Carolina.
Cotton.

Chapman, Max, Marysville, Ohio.
Standard Delaine merino wool.

Chilton, J. B., Comanche, Texas.
"Chilton Blue Seed" improved lint cotton.

Chinn, R. L., Coulterville, Texas.
"Miles and King" cotton seed.

Chisholm, E. N., Rowesville, South Carolina.
"Peterkin" lint cotton.

Clapp, A. R., Chatham, Ohio.
Dickinson Delaine merino wool.

Clark, John G., Washington, Pennsylvania.
Improved Saxony wool.

Clark, Judge Walter, Raleigh, North Carolina.
"Drake's Cluster" cotton seed.

Clarke, William, Cahto, California.
Merino cross wool.

Coates Brothers, Philadelphia, Pennsylvania.
Delaine wool.

Cohn, S., & Son, Magnolia, Mississippi.
High grade upland lint cotton.

Colin, L. L., Carbon, Texas.
'Berville" and common cotton.

Collins, W. A., Bastcop, Louisiana.
"Peterkin" cotton seed.

Collins, W. E., Mayersville, Mississippi.
"China Prolific," "Dougherty's Long Staple," "Peterkin" lint cottons.

Commercial Museum, Philadelphia, Pennsylvania.
Washed and unwashed wool from various parts of the United States.

Commonwealth Cotton Manufacturing Company, Durham, North Carolina.—"Williams' " variety lint cotton.

Cone, D. S., Red Bluff, California.
Merino wool.

Conn, J. G., Neal, Texas.
"Improved Mixture" lint cotton.

Constant, Edward W., Atherton, Louisiana.
"Willis" cotton seed.

Cook, W. A., Utica, Mississippi.
"Cook's" upland long staple lint cotton.

Corley, J. J., Florence, South Carolina.
Cotton plant in fruit, seed and lint cotton.

Cossit, Davis, Onondaga, New York.
American merino wool.

Cribb, J. B., Manor, Georgia.
"Searsland" cotton seed.

Crow Brothers, Monroe, North Carolina.
"King's Improved" lint cotton.

Culbertson, H. M., Sonora, Ohio.
"Dickinson" Delaine merino wool.

Currie, J. W., Rio Vista, Texas.
Storm-proof cotton.

Curtis, W. S., Thomson, Georgia.
"Pruitt's" re-improved cotton.

Davisson, F. M., West Manchester, Ohio.
Oxford down wool.

Delta Cotton Company, Memphis, Tennessee.
Cotton.

Department of Agriculture, U. S. A., Washington, D. C.
Collective exhibit of wools and goat fleeces.

Department of Agriculture, U. S. A., Museum Division, Washington, D. C.—Collective exhibit of flax, flax straw, Alaskan flax and fibers.

Department of Agriculture, U. S. A., Museum, Vinita, Indian Territory.—Fleece of Angora goat.

Department of Agriculture, U. S. A., Division of Statistics, Washington, D. C.—Collective exhibit of seed and lint cotton.

Dewey, Gould & Company, Boston, Massachusetts.
Graded Michigan wool.

Dewstoe, Martin R., Mount Holly, North Carolina.
"Improved King's" cotton seed.

Dill, Joseph T., Charleston, South Carolina.
Extra fine lint cotton.

Dimler, William M., Fillmore, Indiana.
Leicester cross wool.

Dockery & Donelson, Memphis, Tennessee.
Lint cottons.

Dodge, Charles Richards, Washington, D. C.
Photographs illustrating the fiber industry in the United States.

Dorgan, L. C., Mobile, Alabama.
Cotton.

Dorgan, L. C., & Company, Mobile, Alabama.
Common and Allen seed cotton.

Draughn, Alonzo B., Ryan, Texas.
"Storm-Proof" lint cotton.

Du Pre, A. H., & Son, McClellanville, South Carolina.
Sea Island and lint cotton.

Eagleson, A. S., Washington, Pennsylvania.
Dorset horn wool.

Easley, J. W., Pendletonville, Texas.
"Woolup" seed cotton lint.

Ellison, M. E., Williamston, South Carolina.
"King's" lint and seed cottons.

Eubank, A. L., Armstrong, South Carolina.
"Duncan's" mammoth lint cottons.

Evans, W. D., Cheraw, South Carolina.
Cotton.

Ewing, Hon. R. T., Centre, Alabama.
"Texas Storm-Proof" lint cotton.

Experiment Station of North Carolina, Raleigh, North Carolina.—"King's No. 1" cotton seed.

Fallin, W. H., Ruston, Louisiana.
Cotton.

Farrell, T. W., Blackville, South Carolina.
"Peterkin" lint cotton.

Farrill, P. W., Blackville, South Carolina.
"Big Boll Prolific" lint cotton.

Ferguson, J. G., Vicksburg, Mississippi.
"Ferguson's Prolific" staple lint cotton.

Ferrell, B. C., Quincy, Mississippi.
Common Mississippi lint cotton.

Field & Strickland, Carterville, Georgia.
Common Georgia lint cotton.

Finks, J. B., Waco, Texas.
Cotton.

Fiske, Louis S., & Company, Philadelphia, Pennsylvania.
Wool, washed and unwashed, from various parts of the United States.

Flint, Daniel, Sacramento, California.
Hops.

Folts, A. J., Ripley, Tennessee.
Green seed cotton seed.

Forrest, James M., Paris, South Carolina.
"Chester Big Boll" lint cotton.

Foster & Glassell, Shreveport, Louisiana.
Cotton.

Frankinbush, J. M., New Orleans, Louisiana.
Lint cottons.

Fripp, William P., Grahamville, South Carolina.
Sea Island cotton.

Fugua, M. J., Anderson, Texas.
"O'Brien Big Boll" lint cotton.

Gage, John P., Union, South Carolina.
"Peterkin" and "Thomas" hybridized cottons.

Gallop, J. O., Woodson, Mississippi.
"Timberlake" lint cotton.

Garland, B. W., Dekalb, Texas.
Cotton.

Gilbert, J. E., & Company, Nashville, Tennessee.
Cottons.

Goodlett, James P., Memphis, Tennessee.
Long staple, "Heavy Bender" and upland lint cottons.

Gordon, W. W., & Company, Georgia.
Commercial collection of East Florida and Georgia Sea Island cottons.

Gracie, John M., New Gascony, Arkansas.
"Black Rattler," "Truitt" and "Silk Osier" lint cottons.

Graham, A. T., Canton, Mississippi.
"Pelican" lint cotton.

Graham, E. M., Ruston, Louisiana.
"King" cotton seed.

Graham, W. A., Machpelah, North Carolina.
"Graham's Improved" lint cotton.

Green, B. A., Easley, South Carolina.
"Allen's Long Staple," "King's Early" cottons.

Green, Mc, Altona, Oklahoma.
"Willow" and "Red Baltic" cotton seed.

Green, Wesley, Baxter, Arkansas.
"Big Boll" cotton seed.

Greene, H. H., Ballettsville, Tennessee.
"Meyer's" cotton.

Gregory, W. B., Stovall, North Carolina.
"Russell's lint cotton.

Griffin, John, Greenville, Mississippi.
"Griffin" cotton.

Guesnard, August, Lobdell, Louisiana.
Cotton lint.

Gumbell, E., & Company, New Orleans, Louisiana.
Louisiana cottons.

Guy, John N., Carbon, Texas.
"Mir's" variety lint cotton.

Gwin, Davis & Gwin, Brunswick, Mississippi.
Extra staple lint cotton.

Haile & Waltz, Chico, California.
Merino wool.

Hale, Barry, Baxter, Arkansas.
"Peterkin" cotton seed.

Hall, J. C., Ordway, South Dakota.
Shropshire wool.

Halladay, C. L., Sebewa, Michigan.
Rambouillet merino wool.

Hallett, H. C., Morrilton, Arkansas.
"Cook" lint cotton.

Halliday, W. P., Drewton, Arkansas.
Cotton.

Hallowell, Donald & Company, Boston, Massachusetts.
Wool, washed and unwashed, from various districts of the United States.

Hancock, George A., Eugene, Oregon.
Fleece of Angora goat.

Harden, W. A., Chester, South Carolina.
"Peterkin" lint cotton.

Hardie, W. T., & Company, New Orleans, Louisiana.
Cotton.

Hargrave, Joseph, Madrid, New York.
Dorset horn wool.

Harmon, F. J., Lexington, South Carolina.
"Peerless" lint cotton.

Harper, William G. Hemphill, Texas.
Texas cotton.

Harrell, George R., Kelford, North Carolina.
"Allen's Long Staple" and Hybrid cotton.

Harris, George C., Mt. Helena, Mississippi.
Cotton.

Harris, John S., Oakley, Idaho.
Fleece of Angora goat.

Harris, Thomas, Thomas, Georgia.
Cotton.

Harris, W. P., Youngs, South Carolina.
"Peterkin" cotton.

Harrison, John, Nash, Texas.
"Storm-Proof" and "Peterkin" lint cottons.

Hart, J. S., Stono, South Carolina.
"Seabrook" lint cotton.

Hartley, L. M., Salem, Iowa.
Shropshire wool.

Hawkins, B. W., Nona, Georgia.
"Prolific" lint cotton.

Hawkins, Henry, Shreveport, Louisiana.
Cottons and unpressed cotton lint.

Hayes, H. M., Exlivin, Georgia.
Cotton.

Hays, X. D., Kent's Store, Louisiana.
"Perkins" cotton seed.

Hazlewood, J. D., Fayette Corner, Tennessee.
Fine Pacific lint cotton.

Heald, C. H., Healdton, Indian Territory.
"Ounce Boll" and mixed cotton seed.

Hecht, Liebmann & Company, Boston, Massachusetts.
Wools of various breeds and grades.

Hinson, W. G., Charleston, South Carolina.
Sea Island cotton.

Holtz, Scott, Tiffin, Ohio.
"Dickinson" Delaine wool.

Hooker, G., Eureka, California.
Merino wool.

Horst Brothers, Horstville, California.
Hops.

Huett, Lee, Baxter, Arkansas.
"Peterkin" cotton seed.

Hughes, W. G., Hastings, Texas.
Merino wool.

Indo-Egyptian Compress Company, New York and Boston, Massachusetts.—Cotton in bales.

Jackson, E. B., Arnot, Mississippi.
"Superior Benders" lint cotton.

Jacob, A. R., Clinton, West Virginia.
"Saxony Improved" wool.

Jagode, Phillip, & Company, Philadelphia, Pennsylvania.
Wool, Ohio washed, New Mexican unwashed fleece, New Mexican scoured.

Jamison, John B., Maynard, South Carolina.
"Jones' " and King's" cottons.

Jeter, W. W., Santuck, South Carolina.
"Jeter Dickson" cotton.

Jeter, L. B., Cantuc, South Carolina.
"Peterkin" cluster lint cotton.

Johnson, J. B., & Son, Canonsburg, Pennsylvania.
Wool.

Johnson, J. M., Tallulah, North Carolina.
"La Clede" and "Long Staple" lint cotton.

Johnston, C. W., Chapel Hill, North Carolina.
"Boyd's" prolific lint cotton.

Jones, Hercules, Canton, Mississippi.
"Jones' Staple" lint cotton.

Jones, Horace R., Arcadia, Louisiana.
Cotton lint.

Jones, J. M., Summerville, Tennessee.
Long staple lint cotton.

Jones, J. Wiley, Banks, North Carolina.
Cotton.

Joyner, N. C., Kingville, South Carolina.
"Peterkin" lint cotton.

Justice, Bateman & Company, Philadelphia, Pennsylvania.
Merino, Shropshire and crosses, washed and unwashed wool.

Keener, M. M., Plaingrove, Pennsylvania.
Wool.

Kelly, Thomas B., Kelly, Alabama.
"Hawkins' Improved" cotton seed.

King, J. B., St. Paul, South Carolina.
"Peterkin" lint cotton.

King, J. M., Hattiville, Arkansas.
Cotton.

Knoop, Frerichs & Company, Charleston, South Carolina.
Middling fair lint cotton.

Kohlmann, Louis, New Orleans, Louisiana.
Moss and vegetable hair for carriage upholstery.

Koshland, M. S., San Francisco, California.
Merino wool.

Kosminsky & McFaddin, Texarkana, Arkansas.
Cottons.

Lea, F. H., New Orleans, Louisiana.
Commercially graded lint cottons.

Lee, Robert E., Laurinburg, North Carolina.
Cotton.

Lee, Samuel, & Company, Philadelphia, Pennsylvania.
Wool.

Lenz, Henry, Leighton, Alabama.
Green seed lint cotton.

Leonard, Daniel, Leonard, Iowa.
Shropshire wool.

Leslie, P. C., Norman, Oklahoma.
"Storm King" cotton seed.

Levi, M. P., Weaver, Tennessee.
"Levi's Double Boll" lint cotton.

Lill, Samuel & Company, Philadelphia, Pennsylvania.
Wool, washed and unwashed, from Ohio.

Lipscomb, A. S., Pacolett, South Carolina.
"King" lint cotton.

Lipscomb, B. S., Pacolett, South Carolina.
"King" lint cotton.

Lipscomb, J. M., Gowcher, South Carolina.
"Big Boll" lint cotton.

Logan, J. A., Gordo, Alabama.
"Storm-Proof" lint cotton.

Lord, Mrs. Julia P., Salem, Oregon.
Flax straw and fiber produced by the Oregon Women's Flax Growing Association.

Luce & Manning, Boston, Massachusetts.
Graded wools.

Ludwig, B. T. J., Mt. Pleasant, North Carolina.
Green seed mixed cotton.

Lynch, B. McN., Laurinburg, North Carolina.
Cotton.

Lynn, George W., Durham, North Carolina.
"Williams" lint cotton.

Lyons, J., Eureka, California.
California wools.

Macarty, W. W., Choctaw, Oklahoma.
"Storm-Proof" cotton seed.

McBride, John A., Scotland, North Carolina.
North Carolina cotton.

McCord, J. W., Sabougla, Mississippi.
"Russell's Big Boll" and "Colodyce's Long Staple" cotton.

McDonald, R., Trinity, Texas.
"Bohemian" and "Peterkin" lint cottons.

McIntyre, Patsey, Glass, Mississippi.
"Ferguson" lint cotton.

McKay, R. M., Cheraw, South Carolina.
"Johnson" mixed seed cotton.

McKinnon, A. J., Maxton, North Carolina.
"King's Early," "Peterkin's Improved" and other cottons.

McKinnon, L. D., Laurinburg, North Carolina.
"Simpson" lint cotton.

McLendon, J. R., Naftel, Alabama.
Upland and "Big Boll" cotton seeds.

McNary, James C., Washington, Pennsylvania.
Delaine merino wool.

McNary, J. S., Cannonsburg, Pennsylvania.
Delaine merino wool.

Mahan, W. H., Randolph, Alabama.
Cotton.

Makeig, S. I., Ross, Texas.
"Big Boll" cotton seed.

Maloney, W. A., King's Mountain, North Carolina.
Cotton.

Martin, F. M., Pecan Grove, Texas.
"Bedell' lint cotton.

Maske, J. B., Polkton, North Carolina.
"Dixie" cotton seed.

Massey, B. F., Fort Mill, South Carolina.
"Peterkin" lint cotton.

Mauger & Avery, Boston, Massachusetts.
Wool from the Eastern United States.

Mauney, W. A., Long Shoals Cotton Mills, Long Shoals, North Carolina.—"King's Improved" lint cotton.

Maxey, S. C., Choctaw, Oklahoma.
"Five Lock" cotton seed.

May, W. H., King's Landing, Alabama.
"Southern Prolific" lint cotton.

Mial, Millard, Raleigh, North Carolina.
"King" lint cotton.

Miller, C. W., Social Circle, Georgia.
"Big Boll" cotton.

Miller, J. M., Upland, Indiana.
Merino wool.

Milton, R. K., Midlothian, Texas.
"Goose Egg Five Lock" lint cotton.

Minge, C. H., & Company, New Orleans, Louisiana.
Louisiana cotton lint.

Mitchell, E. B., Ballettsville, Texas.
"Meyer's" cotton.

Mitchell, Joseph D., Newton Landing.
"China Prolific" lint cotton.

Mitchell, L. M., Heloise, Tennessee.
Green seed cotton seed.

Mobile Cotton Exchange, Mobile, Alabama.
Alabama cotton; upland and river lint cotton.

Montgomery, George W., Tallulah, Louisiana.
"Long Staple" cotton.

Moore, Aaron, Canton, Mississippi.
"Hawkins" lint cotton.

Moore, Dr. Matt, Warsaw, North Carolina.
"Peerless" lint cotton.

Moore, T. B., Greensboro, Georgia.
"Simpson's" cotton.

Moore, W. E., Paris, Texas.
"Bryant" cotton.

Morris, Thomas, Thomas, Georgia.
Cotton.

Moseley, Albert R., Salter Depot, South Carolina.
"Peterkin" lint cotton.

Myers, B. L., Magna Vista, Mississippi.
"Bender's" lint cotton.

Myers, E. L., Brook, Indian Territory.
"Ounce Boll" cotton seed.

Neeley, A. L., Warren, South Carolina.
"Truitt's Improved" lint cotton.

Newcomber, J. L., Lamar, Louisiana.
Louisiana cotton lint.

Nix, F. M., Bico, Texas.
"Storm-Proof" lint cotton.

Noland, B. R., Smithland, Louisiana.
"Heavy Bender's" lint cotton.

Norfleet, F. S., Lecompte, Louisiana.
"Allen Long Staple" cotton.

O'Brien, James F., Burnsville, Alabama.
"Eureka" cotton seed.

Ogilvie, Theodore, Minden, Louisiana.
Cotton.

Oklahoma Cotton Compress Company, Oklahoma, Oklahoma.
Cotton.

Oliphint, T. W., Buntsville, Texas.
"Jackson Lintless" cotton seed.

Oliver, John L., Lancaster, Texas.
"Green Seed," "Storm-Proof" and "Peterkin" cottons.

Orenbeck, Frederick, Baxter, Arkansas.
"Peterkin" cotton seed.

Orr, J. W., Rio Vista, Texas.
"Storm-Proof" lint cotton.

Otto, John B., Tecumseh, Oklahoma.
"Storm-Proof" lint cotton.

Parker, John M., New Orleans, Louisiana.
Twelve varieties of lint cottons.

Parker, John R., McCall, South Carolina.
"Brown Texas Wood" lint cotton.

Patterson, R. A., Airlie, North Carolina.
"Little White" cotton seed.

Payne, William R. & Company, New York City.
Fleeces of Angora goat.

Pearl, James, Port Gibson, Mississippi.
"Alden's Improved" lint cotton.

Peele, John B., Bloomington, Ohio.
Dorset Horn wool.

Peteet, C., Madison, Georgia.
"Pilson's Big Boll" and "Mallory's Lamb-Wool" lint cotton.

Peterson, I. C., Chase, Texas.
"Large Boll," white, and "Storm-Proof" cotton.

Phillips, Charles C., Greenwood, Louisiana.
"Dickin's Short Staple" cotton.

Pickett, H. A., Newberry, Florida.
Sea Island lint cotton.

Pitts, B. B., & Son, Marshall, Texas.
Cotton.

Plumb, Charles S., Fayette, Indiana.
Cheviot wool.

Pollock, W. A., Beird, Mississippi.
"Griffin and Pollock's Fancy" lint cotton.

Porcher, Phillip G., Mt. Pleasant, South Carolina.
Cotton.

Pordur, Phillip G., Mt. Pleasant, South Carolina.
"Dullyard" lint cotton.

Prescott, E., Franklin, South Carolina.
"Hawkin's" lint cotton.

Price, W. J., Jones, Oklahoma.
"Storm-Proof" cotton seed.

Rhodes, A. S., Crawford, Georgia.
"Jackson's Limbless" cotton.

Rice, C. S. O., Orysa, Tennessee.
Green seed cotton seed.

Richards, John T., Pisgah, Alabama.
"Jackson's" lint cotton.

Richardson, J. C., Robertsville, South Carolina.
"Tyler's Limited Cluster" lint and seed cotton.

Richardson, Washington, Baxter, Arkansas.
"Peterkin's" cotton seed.

Ridduck, N. E., Raleigh, North Carolina.
North Carolina cotton.

Riegle, Phillip A., Arlington, Ohio.
Rambouillet wool.

Right, L. W., Florence, South Carolina.
"Peterkin's" lint cotton.

Rigsbee, Atlas M., Durham, North Carolina.
"William's Limbless" cotton.

Robe, J. W., Greencastle, Indiana.
Leicester cross wool.

Roberts, A. V., Mansfield, Louisiana.
"Peterkin's Long-Limb" cotton seed.

Roberts, J. W., Chandler Springs, Alabama.
Long lint prolific cotton.

Robertson, T. J., & Son, Hopedale, Ohio.
Delaine merino wool.

Robinson, A., Benhams, Louisiana.
"Peterkin's Long-Limb" cotton seed.

Robinson, C. A., Rockton, South Carolina.
"Jackson Limbless" lint cotton.

Roby, C. C., Rochefort, Missouri.
Delaine wool.

Rolty Company, Smeed's, Mississippi.
"Bender's" lint cotton.

Rosenberg Brothers, Ballettsville, Texas.
"Myers'" lint cotton.

Russell, D. B., Morrilton, Arkansas.
Twenty-one varieties lint cotton.

Sanders, Capt. D. H., Greenboro, Georgia.
"Jones' Improved" lint cotton.

Sanders, L., Alba, Texas.
"Storm-Proof" lint cotton.

Sanders, Orr & Company, Charlotte, North Carolina.
Cotton.

Santa Cruz Island Company, San Francisco, California.
Three-quarters blood merino wool.

Scott, Charles, Rosedale, Mississippi.
"Cook's" lint cotton.

Scott, J. W., Wisacky, South Carolina.
"Peterkin" lint cotton.

Scott, Lee R., Burgettstown, Pennsylvania.
Delaine merino wool.

Scott, Richard, Milwaukee, Oregon.
"Cotswold" wool.

Sebastian, W. W., Spring Ridge, Louisiana.
Cotton.

Shaw, C. C., & Son, Newark, Ohio.
Southdown wool.

Sheldon, J. D., Fairplay, South Carolina.
"Colis Peterkin" and "Sheldon's Improved Large Boll" cotton seed.

Shine, John W., Pendletonville, Texas.
"Dell's Fine Lock" lint cotton.

Shipman, W. A., Auburn, Alabama.
"Texas Ounce Boll" lint cotton.

Sibley, R. C., Robeline, Louisiana.
"Kimberley" cotton.

Simmes, S. S., Storeville, Georgia.
"Bush and Bayes Prolific" cotton seed.

Simmons, William E., Lawrenceville, Georgia.
Cotton.

Singleton, W. L., Toddville, South Carolina.
"Hawkin's Prolific" lint cotton.

Slater, W. A., Durham, North Carolina.
"Little King" lint cotton.

Slaton, J. P. & J. C., Tuskegee, Alabama.
"Christopher" lint cotton.

Sloan, J. B., & Company, Wilmington, North Carolina.
Cotton.

Smith, Alfred, Oklahoma, Oklahoma.
"Storm-Proof" and "Cheatham" cotton seed.

Smith, Charles D., Warthen, South Carolina.
"King's Improved" lint cotton.

Smith, George T., Covington, Georgia.
"Deiring's" small-seed cotton seed.

Smith, John E., Farr, Texas.
"Storm-Proof" lint cotton.

Smith & Fullerton, Tecumseh, Oklahoma.
Cotton.

Snow, Clark, Oxford, Alabama.
"Russell" lint cotton.

Sommerkamp, R. P., Kamp, Alabama.
"Nankin" lint cotton and seed.

Southern Railway Company, The, Washington, D. C.
Models of plantation cotton compress, modern compress, wagon and car models.

Sparkman, John H., Era, Texas.
"Five Lock Storm-Proof" lint cotton.

Speckels, J. C., Warrenton, Texas.
"Shoepack" lint cotton.

Spencer, George W., Chesterfield, South Carolina.
"Jones' Prolific Big Boll" lint cotton.

Spencer, T. C., Spencer, South Carolina.
"King's Early" lint cotton.

Spicer, W. E., Bushnell, Illinois.
Southdown wool.

Sprunt, Alexander, & Son, Wilmington, North Carolina.
North Carolina upland lint cotton.

Stallings, J. R., Morrilton, Arkansas.
Cotton.

Stein, William, New Berlin, Texas.
"Big Boll" and "Pelican" lint cottons.

Stevens, C. C., Crawford, Georgia.
"Gold Leaf" cotton.

Stogner, John, Comanche, Texas.
"Meyer's" seed cotton.

Stone, James A., & Son, Bradfordton, Illinois.
Shropshire down wool.

Stone, Nota B., Independence, Kansas.
"Big Dixie" and "Excelsior" cotton.

Stone, R. J., Stonington, Illinois.
Oxford down wool.

Stuyvesant, Rutherford, Allamuchy, New Jersey.
Dorset Horn wool.

Sullivan, J. E., Pilot Point, Texas.
Cotton.

Sullivan, Joseph W., Warthen, South Carolina.
"Hawkin's" lint cotton.

Tarkington, S. G., Ballettsville, Texas.
"Myer's" lint cotton.

Taylor, B. L. L., Blevins, Texas.
"Barwell and Woolup" lint cotton.

Thomas, William C., Gold Hill, Alabama.
Cotton.

Thompson, S. M., Prestonia, Missouri.
"White Seed" lint cotton.

Thompson, Z. T., Strong's Station, Mississippi.
"Thompson's Improved" lint cotton.

Tillman, E. D., Van Wyck, South Carolina.
"Tillman's Pet" lint cotton.

Todd, Albert M., Kalamazoo, Michigan.
Plants, aromatic and medicinal; volatile oils.

Tompkins, D. A., Charlotte, North Carolina.
Cotton.

Tompkins, Josiah, & Son, Fostoria, Michigan.
Lincoln wool.

Traylor, T. W., White Oak, South Carolina.
Cotton.

Tripp, Louis F., Grahamville, South Carolina.
Cotton.

Tripp, William P., Grahamville, South Carolina.
Sea Island cotton.

Tullis, John W., & Company, Eufaula, Alabama.
Cotton.

Turner, William S., Banks, North Carolina.
Cotton.

Tuttle, L. C., Eureka, California.
California wool.

Union Oil Company, New York.
Cotton seed oils, cake meal, linters and soap.

Van Valkenburgh, J. D., Greene, New York.
Rambouillet wool.

Wadley, William O., Rogers, Georgia.
"Peterkin" lint cotton.

Waggoner, S. S., Ellenwood, Georgia.
"African Limbless" lint cotton.

Walker, W. S., Jefferson, Texas.
Cotton.

Walls, Sam, Ocee, Texas.
"Storm-Proof" lint cotton.

Warwick, J. M., Flourney, Louisiana.
"Peterkin" cotton.

Watkins, J. F., Chappells, South Carolina.
"Upland Limbless Cluster" lint cotton.

Watkins, Dr. W. W., Aberdeen, Mississippi.
Cotton.

Watts, C. J., Ruston, Louisiana.
"Peterkin" and "King" cotton.

Weaner, J. W., Heath Spring, South Carolina.
"Russell Improved Big Boll" cotton.

Webb, W. T., Alpine, Alabama.
"King's Improved" lint cotton.

Wessinger, P. J., Boyliston, South Carolina.
"Texas Oak" lint cotton.

Whittaker, F. A., Raleigh, North Carolina.
Cotton.

Wilcox, S., Red Bluff, California.
Merino wool.

Williams, J. M., Woodson, Mississippi.
"King's Improved" lint cotton.

Williams, W. B., Strongs, Mississippi.
"Williams' Best" lint cotton.

Williamson, J. A., Columbus, Arkansas.
"Ocean" and "Moon" lint cotton.

Williamson, J. J., Kickapoo, Oklahoma.
"Storm-Proof" lint cotton.

Willingham, B. H., Thomson, Georgia.
"African Limbless" lint cotton.

Wilson, C. C., Boyce, Texas.
"Storm-Proof" cotton.

Wilson, D. J., Lois, Texas.
"Dan Wilson Storm-Proof Five Lock" lint cotton.

Wing, Joseph E., Mechanicsburg, Ohio.
Dorset Horn wool.

Wingo, B. A., Inman, South Carolina.
"Truitt" lint cotton.

Withers, J. B., Davidson, North Carolina.
"King's Improved" lint cotton.

Womack, T. A., Manchac, Louisiana.
"Long Staple" lint cotton.

Worthington, C. T., Leota, Mississippi.
"Bender's Weed" cotton.

Wright, Harrison, Omega, Oklahoma.
Green seed cotton seed.

Wright, Simeon, Ruston, Louisiana.
"Big Boll" lint cotton.

Wright, W. H., Greensboro, Georgia.
"Peterkin" cotton.

Ziegler, Jacob, Clinton, Illinois.
Shropshire down wool.

CLASS 42.

USEFUL INSECTS AND THEIR PRODUCTS—INJURIOUS INSECTS AND PLANT DISEASES.

Benton, Frank, Washington, D. C.
Queen-bee cages, specimens of bees, bulletins on bee-keeping.

California Packing Company, San Francisco, California.
Honey.

Clayton, C. H., Lang, California.
Strained honey in glass jars for table purposes.

Dadant, Chas., & Son, Hamilton, Illinois.
Comb foundation.

Department of Agriculture, U. S. A., Division of Entomology, Washington, D. C.—Collective entomological exhibit illustrating devices for the destruction of insects.

Eastman, A., Sacramento, California.
Honey in comb, in boxes for table purposes, strained honey, beeswax for manufacturing purposes.

Falconer, W. T., Manufacturing Company, Jamestown, New York.—Beehives and sectional honey boxes.

Los Angeles Chamber of Commerce, Los Angeles, California.
Specimens of silk cocoons.

McIntyre, J. H., Sespa, California.
Strained honey in glass jars for table purposes.

Massachusetts State Board of Agriculture, Malden, Massachusetts.—Models and photographs illustrating warfare against Gypsy moths.

Root, A. I., Company, Medina, Ohio.
Beehives, bee-keeping appliances, comb foundation, A B C book on bee culture, photographs of factory and apiary.

Shields, Mrs. Emily, Mills, Sacramento, California.
Honey and wax.

GROUP VIII.

HORTICULTURE AND ARBORICULTURE.

CHARLES RICHARDS DODGE, DIRECTOR.

CLASS 43.

APPLIANCES AND METHODS OF HORTICULTURE AND ARBORICULTURE.

Albaugh-Georgia Orchard Company, Fort Valley, Georgia.
Photographs of orchard and shipping.

Allen, S. L., & Co., Philadelphia, Pennsylvania.
Tools, agricultural and horticultural. Revolving globe.

Audubon Park Association, New Orleans, Louisiana.
Photographs.

Baron de Hirsch Agricultural Industrial School, Woodbine, New Jersey.—Photographs.

Bellefontaine Cemetery, St. Louis, Missouri.
Photographs of landscape features.

Burpee, W. Atlee, & Company, Philadelphia, Pennsylvania.
Photographs of growing crops.

California Commission to Paris Exposition.
Photographs of orchard and vineyard scenes in California.

California Nursery Company, Niles, California.
Photographs of nursery and orchard scenes.

Cemetery of Spring Grove, Cincinnati, Ohio.
Photographs of landscape features.

Coldwell Lawn Mower Company, Newburg, New York.
Lawn mowers, settees; automatic exhibit.

Connor, Washington E., New York City.
Photographs of private grounds and vineyards.

Cooper, Elwood, Santa Barbara, California.
Photographs of olive orchards.

Department of Agriculture, U. S. A., Division of Pomology, Washington, D. C.—Photographs of orchards, vineyards, parks, cemeteries, etc. Models of fruits of the United States.

Dintelmann, L. F., Belleville, Illinois.
Photographs of nursery and orchard scenes.

Dreer, Henry A., Philadelphia, Pennsylvania.
Photographs of aquatics.

Florida East Coast Hotel Company, St. Augustine, Florida.
Photographs of hotel grounds.

Graceland Cemetery, Chicago.
Photographs of landscape features.

Griffing, Timothy M., Riverhead, New York.
Photographs of landscape features.

Hunnewell, H. H., 130 Beacon St., Boston, Massachusetts.
Photographs of landscape features.

Johnson, F. C., Kishwaukee, Illinois.
Photographs of farm cider and vinegar mill.

Lyale, Addison, Allegheny City, Pennsylvania.
Photograph of landscape features.

Maryland Agricultural Experiment Station, College Park, Maryland.—Photographs of horticultural scenes.

Michigan Seed Company, South Haven, Michigan.
Photographs of fields of growing crops.

Milwaukee Park Commission, Milwaukee, Wisconsin.
Photographs taken in Milwaukee parks.

Missouri State Horticultural Society, Oregon, Missouri.
Photographs of orchard scenes.

National Cash Register Company, Dayton, Ohio.
Photographs, horticultural features of grounds; houses of operatives.

Newby, Thomas T., Carthage, Indiana.
Photographs, garden and orchard scenes.

Packard, A. S., Covert, Michigan.
Photographs of orchard scenes.

Pennsylvania Railroad Company, Philadelphia, Pennsylvania.
Photographs of station grounds.

Post, Herbert, Fort Worth, Texas.
Photographs of nut trees.

Postlewaite, Harry, San Jose, California.
Photographs, growing and marketing cherries.

Roeding, George C., Fresno, California.
Photographs of nursery and orchard scenes.

St. Paul Board of Park Commissioners, St. Paul, Minnesota.
Photographs taken in parks.

Southern Railway Company, Washington, D. C.
Photographs of orchard and vineyard scenes.

Stevens, Mrs. Kinton, Montecito, California.
Photographs of tropical and subtropical plants.

Studer, Nicholas, Washington, D. C.
Photographs of ferns and decorative plants.

University of Idaho, Moscow, Idaho.
Photographs of garden, nursery and orchard scenes.

Vaughan, J. C., Chicago.
Photographs of growing crops and propagating houses.

Von Herff, Dr. B., 93 Nassau St., New York.
Photographs, orchard and vineyard scenes.

Wilson, J. F., Poulan, Georgia.
Photograph of pecan tree.

CLASS 45.

FRUIT TREES AND FRUITS.

Addleman, Dill, Richmond, Indiana.
Apples.

Ainsley, M., Billsboro, New York.
Apples and pears.

Aldrich, H. A., Neoga, Illinois.
Apples.

Alters, John, Belleplaine, Kansas.
Apples.

Atherton, W. P., Hallowell, Maine.
Apples.

Axtell, F. H., Oakland, Maine.
Apples.

Babcock, E. F., Waitsburg, Washington.
Collective exhibit of fresh fruits.

Bailey, Jacob, Green Mountain, North Carolina.
Apples.

Baker, G., Lyons, New York.
Apples.

Baldwin, M. A., Jacksonville, Illinois.
Apples.

Banner, Newton, Sugar Grove, North Carolina.
Apples.

Barry J., Red Bluff, California.
Almonds.

Bassett, W. A., Farmer, New York.
Apples.

Beer, S. J., Vandalia, Illinois.
Apples.

Belle Louise Ranch, Mazana, California.
Almonds.

Berry, M. F., Hallsville, Missouri.
Apples.

Black, William H., Floradale, Pennsylvania.
Apples.

Barley, U. S., Red Bluff, California.
Almonds.

Blair, George A., Mulvane, Kansas.
Apples.

Boggs, George E., Livingstone, North Carolina.
Apples.

Bradley, Elmer, Lyons, New York.
Apples.

Bream, Samuel, Floradale, Pennsylvania.
Apples.

Bryant, A., & Son, Princeton, Illinois.
Apples.

Bryant, L. R., Princeton, Illinois.
Apples.

Burgdorf, S. E., Junius, New York.
Apples.

Burk, Frank, Mesilla Park, New Mexico.
Apples.

Burnett, Charles, Lyons, New York.
Apples.

Burton, Joseph A., Orleans, Indiana.
Apples.

California Paris Exposition Commission, San Francisco, California.—Fruits and vegetables in preserving solution. Fresh fruits and nuts.
Continuous exhibit of one variety of apples from April 15 to July 15, 1900. Continuous exhibit of citrus fruits, April 15 to November, 1900.

Chipman, N. R., Red Bluff, California.
Almonds.

Clark, Merritt M., Bedford, New York.
Apples.

Codwell, A., Valley City, Illinois.
Apples.

Coffey, George W., Kelsey, North Carolina.
Apples.

Cone, D. S., Red Bluff, California.
Almonds.

Cone, M. H., Blowing Rock, North Carolina.
Fresh fruits of North Carolina.

Connecticut State Pomological Society, J. H. Merriam, President, New Britain, Connecticut.—Collective exhibit of fresh fruits.

Coyner, George A., Waynesboro, Virginia.
Apples.

Crain, W. R., Villa Ridge, Illinois.
Apples.

Crete Nurseries, Crete, Nebraska.
Apples.

Crozet Fruit Growers' Association, Crozet, Virginia.
Collective exhibit of fresh fruits.

Davis, A., North Adams, Michigan.
Apples.

Delmas, A. G., Scranton, Mississippi.
Pecan nuts.

Department of Agriculture, U. S. A., Division of Pomology, Washington, D. C.—Grand collective exhibit of fresh fruits made up of the collective exhibits of the California Paris Exposition Commission, the New York Commission, and the State Horticultural and Pomological Societies.

Dickee, James, Massie's Mill, Virginia.
Apples.

Dintelman, L. F., Belleville, Illinois.
Apples.

Dorman, Walter, Billsboro, New York.
Apples.

Dula, J. A., Lenoir, North Carolina.
Apples.

Duncan, Mrs. M., Red Bluff, California.
Almonds.

Dunlap, Henry M., Savoy, Illinois.
Apples and pears.

Dutton, A. H., Youngstown, New York.
Apples.

Ebersoll, George, Centerville, Indiana.
Apples.

Edwards, D. R., Versailles, Missouri.
Apples.

Eliason, Alice, Centerville, Indiana.
Apples.

Elliott, Jesse P., Alquina, Indiana.
Apples.

Facer, William D., Lyons, New York.
Apples.

Falkner, N. K., Mesilla Park, New Mexico.
Apples.

Flack, William M., Cane River, North Carolina.
Apples.

Foster Brothers, Hall's Corners, New York.
Apples.

Francis, C. H., Altamont, Illinois.
Apples.

Gano, W. G., West Plains, Missouri.
Apples.

Garretson, J. V., Floradale, Pennsylvania.
Apples.

Goodman, L. A., Cuba, Missouri.
Apples.

Griest, Amos W., Floradale, Pennsylvania.
Apples.

Haden Brothers, Crozet, Virginia.
Apples.

Harpster, Henry, St. Peter, Illinois.
Apples.

Harris, W. R., Tecumseh, Nebraska.
Apples.

Hatcher, M. L., Reba, Virginia.
Apples.

Hatley, J. S., Hudson, North Carolina.
Apples.

Hensley, Wilson, Bald Creek, North Carolina.
Apples.

Hiester, Gabriel, Harrisburg, Pennsylvania.
Apples.

Hillhouse, George S., Pierce City, Missouri.
Apples.

Hoffman, Daniel, Arendtsville, Pennsylvania.
Apples.

Hotchkiss, C. M., Cheshire, Connecticut.
Apples.

Husband, Joseph, Leanderville, Illinois.
Apples.

Illinois State Horticultural Society; Henry M. Dunlap, President, Savoy, Illinois—Collective exhibit of fresh fruits.

Indiana State Horticultural Society, C. M. Hobbs, President, Bridgeport, Indiana.—Collective exhibit of fresh fruits.

Jacobus, Philo, Niles, California.
Almonds.

James, G. G., Exeter, Missouri.
Apples.

Johnson, J. R., Manassas, Virginia.
Apples.

Kansas State Horticultural Society, Fred Welhouse, President, Topeka, Kansas.—Collective exhibit of fresh fruits.

Kempton, Joseph, Centerville, Indiana.
Apples.

King, Columbus, Centerville, Indiana.
Apples.

Kitterman, Enos, Centerville, Indiana.
Apples.

Kraft, Herbert, Company, Red Bluff, California.
Almonds.

La Rash, S. D., Pekin, Illinois.
Apples.

Lawyer, Rufus, Biglerville, Pennsylvania.
Apples.

Leonard, C. N., Penfield, New York.
Apples.

Letterman, D. A., Green Mountain, North Carolina.
Apples.

Linton, W. D., Patoka, Illinois.
Apples.

Livingstone, A. H., Walla Walla, Washington.
Apples.

Los Angeles Chamber of Commerce, Los Angeles, California.
Walnuts, twenty varieties.

Maine State Pomological Society, W. M. Munson, President,
Orono, Maine.—Collective exhibit of fresh fruits.

Manchester, Elbert, Bristol, Connecticut.
Apples.

Mason, Walter, Belleplaine, Kansas.
Apples.

Marshall Brothers, Arlington, Nebraska.
Apples.

May, J. E., Wilson, Missouri.
Apples.

McInturff, C. R., Paint Gap, North Carolina.
Apples.

McCollough, U. S., Red Bluff, California.
Almonds.

McPeters, C. L., Bald Creek, North Carolina.
Apples.

Merriman, J. H., New Britain, Connecticut.
Apples.

Miller, J. J., Washington, Virginia.
Apples.

Milman, George A., Las Cruces, New Mexico.
Apples.

Missouri State Horticultural Society, N. F. Murry, President, Oregon, Missouri.—Collective exhibit of fresh fruits.

Montgomery, A., Whittier, California.
Almonds.

Morse, Charles, Southington, Connecticut.
Apples.

Myers, Calvin, Mulvane, Kansas.
Apples.

Nebraska State Horticultural Society, George H. Marshall, President, Arlington, Nebraska.—Collective exhibit of fresh fruits.

Nelson, A., & Company, Ozark Plateau Fruit Company, Lebanon, Missouri.—Apples.

Newby, Thomas T., Carthage, Indiana.
Apples.

New Mexico Agricultural College, Mesilla Park, New Mexico.
Apples.

New York State Paris Commission, New York City.
Collective exhibit of fresh fruits.

North Carolina Department of Agriculture, Raleigh, North Carolina.—Collective exhibit of fresh fruits.

Parker, J. A., Lakin, Kansas.
Apples.

Patchett, Joseph, Billsboro, New York.
Apples.

Paul & Ellison, Crozet, Virginia.
Apples.

Pearson, N. M., Mexico, Missouri.
Apples.

Pederson, Peder, Huntingdon Valley, Pennsylvania.
Apples.

Perrine, I. B., Bluelakes, Idaho.
Apples.

Phinney, C. S., Standish, Maine.
Apples.

Phoenix, F. S., Bloomington, Illinois.
Apples.

Platt, E. B., Milford, Connecticut.
Apples.

Platt, George F., & Son, Milford, Connecticut.
Apples.

Platt, N. D., Milford, Connecticut.
Apples.

Post, Herbert, Fort Worth, Texas.
Pecans.

Powell, George T., Ghent, New York.
Apples.

Proffitt, D. R., Burnsville, North Carolina.
Apples.

Raffensparger, Lizzie J., Biglerville, Pennsylvania.
Apples.

Rankin, J., Martinez, California.
Walnuts.

Ray, C. D., Burnsville, North Carolina.
Apples.

Ray, J. S., Burnsville, North Carolina.
Apples.

Raymond, H. R., Alvord, Missouri.
Apples.

Richmond Horticultural Society, Richmond, Missouri.
Apples.

Rider, Frank, Thornton, Washington.
Apples.

Robarts, M. M., Republic, Missouri.
Apples.

Robison, Mrs. Thomas R., Hall's Corners, New York.
Apples.

Rodenburg, Charles, Richmond, Indiana.
Apples.

Rogers, E., New Britain, Connecticut.
Apples.

Ross, J. A., Thornton, Washington.
Apples.

Russell, Elmira, Richmond, Indiana.
Apples.

Sedgwick, Richard, Richmond, Indiana.
Apples.

Shaw, Fred, Summerkill, Illinois.
Apples.

Shields, Mrs. Emily, Mills, California.
Almonds.

Smith, Jacob, E., Banner's Elk, North Carolina.
Apples.

Stone, George A., Richmond, Missouri.
Apples.

Strong, Mrs. H. W. R., Whittier, California.
Walnuts.

Stuart Pecan Company, Ocean Springs, Mississippi.
Pecan nuts.

Tabor, R. H., Red Bluff, California.
Almonds.

Taylor, Hughey, Waitsburg, Washington.
Apples.

Taylor, Robert, Las Cruces, New Mexico.
Apples.

Tenny, Delos, Hilton, New York.
Apples.

Trimble, McGill & Company, Seymour, Missouri.
Apples.

Troutman, John H., Lakin, Kansas.
Apples.

Virginia State Horticultural Society, Samuel B. Woods, President, Charlottesville, Virginia.—Apples. Fresh fruits.

Warner, E. C., New Haven, Connecticut.
Apples.

Webster County Horticultural Society, Seymour, Missouri.
Apples.

Weidner, Aaron J., Arendtsville, Pennsylvania.
Collective exhibit of fresh fruits.

Whately, Walter, Crozet, Virginia.
Apples.

Williams, Prescott, Williamsburg, Massachusetts.
Apples.

Williams, Dr. W. W., Hilton, New York.
Apples.

Wilson, J. F., Poulan, Georgia.
Pecans.

Winn, Charles C., Griggsville, Illinois.
Apples.

Woldert Grocery Company, Tyler, Texas.
Pecans; seven varieties.

Wrey, W. B., Cane River, North Carolina.
Apples.

Wright, Thomas, Kelsey, North Carolina.
Apples.

Young, B. M., Morgan City, Louisiana.
Pecans; twenty-four varieties.

Young, William A., Butler, Illinois.
Apples.

CLASS 46.

TREES, SHRUBS, ORNAMENTAL PLANTS AND FLOWERS.

Lothrop & Higgins, East Bridgewater, Massachusetts.
Growing dahlias. Outdoor exhibit.

Michigan Seed Company, South Haven, Michigan.
Growing dahlias and gladioli. Outdoor exhibit.

North Carolina Department of Agriculture, Raleigh, North Carolina.—Ornamental shrubs, kalmia, rhododendron, holly, etc. Outdoor exhibit.

CLASS 47.

PLANTS OF THE CONSERVATORY.

Studer, Nicholas, Washington, D. C.
Photographs of giant ferns, Nephrolepsis Washingtoniensis, errecta and pendula.

CLASS 48.

SEEDS AND PLANTS FOR GARDENS AND NURSERIES.

Michigan Seed Company, South Haven, Michigan.
Collection of garden seeds.

Trumbull & Beebe (California Paris Commission), San Francisco, California.—Collection of garden seeds.

GROUP IX.

FORESTRY, HUNTING, FISHING, GATHERING WILD CROPS.

DR. TARLETON H. BEAN, DIRECTOR.

CLASS 49.

APPLIANCES AND PROCESSES USED IN FORESTRY.

Department of Agriculture, U. S. A., Washington, D. C.
Photographs and writings pertaining to forests, their destruction, their preservation, and their relations to agriculture.

Forest & Stream Publishing Company, 346 Broadway, New York.—Publications: Forest and Stream Journal; books upon out-door sports.

Hough, Dr. Franklin B., Lowville, New York.
Publications relating to forestry.

Hough, Romeyn B., Lowville, New York.
Photographs of typical trees, illustrating their manner of growth.

Southern Railway Company, 719 13th Street, N. W., Wash-ington, D. C.—Photographs showing the processes of logging, milling, and transporting lumber.

CLASS 50.

PRODUCTS OF THE CULTIVATION OF FORESTS AND OF FOREST INDUSTRIES.

Albro, E. D., & Company, 1025 West Sixth Street, Cincinnati, Ohio.—Veneers and hardwoods.

Alleghany Lumber Company, Washington, North Carolina.
Yellow pine lumber.

Atlantic Coast Lumber Company, Norfolk, Virginia.
Yellow pine lumber.

Bean, Tarleton H., 50 W. 17th Street, New York.
A cigar case made by Alaskan native on the Island of Atka, from a native wild grass.

Bennett, Wm. A., Cincinnati, Ohio.
Collective exhibit of hardwood lumber.

Bennett & Witte, 222 West Fourth Street, Cincinnati, Ohio.
Poplar and yellow cottonwood.

Bixler, Mort L., Beaumont, Texas.
Collective exhibit of Texas and Louisiana pine lumber.

Bowie, George M., Whitecastle, Louisiana.
Cypress lumber, collective exhibit.

Branning Manufacturing Company, Edenton, North Carolina.
Yellow pine lumber.

Brenner, Fred., Lumber Company, 416 Pike Building, Cincinnati, Ohio.—Hardwood.

Bridgeport Wood Finishing Company, New Milford, Connecticut.—Finished hardwoods.

Buckley, James T., Brookville, Indiana.
Hardwood.

Buffalo Maple Flooring Company, Buffalo, New York.
Hardwood flooring.

Butters Lumber Company, Boardman, North Carolina.
Yellow pine lumber.

California Paris Exposition Commission of 1900, Occidental Hotel, San Francisco, California.—Collective exhibit of woods for building and cabinet work.

Camp Manufacturing Company, Franklin, Virginia.
Yellow pine lumber.

Cape Fear Lumbering Company, Wilmington, North Carolina.
Yellow pine lumber.

Cleveland Wholesale Lumber Dealers, Cleveland, Ohio.
Collective exhibit of lumber.

Cochran Lumber Company, 222 West Seventh Street, Cincinnati, Ohio.—Hardwood.

Cramer, Alfred B., Suffolk, Virginia.
Yellow pine lumber.

Cummer Company, Norfolk, Virginia.
Yellow pine lumber.

Cristadoro, Charles, Saint Paul, Minnesota.
Collective exhibit of lumber used for the manufacture of boxes.

Curtis, George M., Clinton, Iowa.
Collective exhibit of sash, doors, and blinds.

Cypress Lumber Company, Richmond and Harriet Streets, Cincinnati, Ohio.—Hardwood.

Davidson, W. V., Lumber Company, Nashville, Tennessee.
Hardwood lumber.

Dennis Simmons Lumber Company, Williamton, North Carolina.—Yellow pine lumber.

Department of Agriculture, Washington, D. C.
Commercial woods of the United States.

Department of Forestry, U. S. Commission to Paris.
Thin sections of woods of the United States, representing more than 250 species.

Dwight Lumber Company, Detroit, Michigan.
Hardwood flooring.

Edwards, E. L., Reibold Building, Dayton, Ohio.
Hardwood.

Eureka Lumber Company, Washington, North Carolina.
Yellow pine lumber.

Farrin, M. B., Winton Place, Cincinnati, Ohio.
Yellow poplar and hardwood.

Fisher & Wilson Company, Cleveland, Ohio.
Lumber.

Fisheries, Game and Forest Commission of New York, Albany, New York.—Specimens of native commercial woods of the State of New York.

Foreign Standard Barrel Company, Arthur W. Barnard, Pres., Oak Terrace, E. 142d Street, New York.—Barrel made entirely by machinery.

Forest and Stream Publishing Company, New York City.
Publications and illustrations.

Forman Company, Thomas, Petoskey, Michigan.
Hardwood flooring.

Foster, A. G., Tacoma, Washington.
Collective exhibit of lumber of the States of Washington and Oregon.

Fuhrmann, A. V., 626 Main Street, Cincinnati, Ohio.
Yellow pine.

Fullerton, S. H., St. Louis, Missouri.
Collective exhibit of lumber and other wood products.

Gardiner, Silas W., Laurel, Mississippi.
Collective exhibit of Mississippi pine lumber and other pine products.

Graham Lumber Company, Ltd., 41 E. Fourth Street, Cincinnati, Ohio.—Yellow poplar and hardwood.

Greenleaf Johnson Lumber Company, Norfolk, Virginia.
Yellow pine lumber.

Harvey, W. S., Forrest Building, Philadelphia, Pennsylvania.
Collective exhibit of lumber and other forest products.

Herrick, E. M., San Francisco, California.
Collective exhibit of fir and spruce lumber and other forest products.

Higman, John, St. Joseph, Michigan.
Collective exhibit of baskets, boxes, and other packages.

Hill, O. J., Kansas City, Missouri.
Collective exhibit of staves and other forest products.

Hitch, Frank, Lumbering Company, Norfolk, Virginia.
Yellow pine lumber.

Hooper, C. A., San Francisco, California.
Collective exhibit of redwood lumber and other redwood products.

Hough, R. B., Lowville, New York.
Preparations of wood for the stereopticon and for the microscope, also specimens of wooden cards.

Indiana Lumber Company, Nashville, Tennessee.
Hardwood lumber.

Jenks, Robert H., Lumber Company, Cleveland, Ohio.
Lumber.

Kipp, B. A., & Company, 107 West Water Street, Cincinnati, Ohio.—Hardwood.

Kirk-Christy Company, Cleveland, Ohio.
Lumber.

Lathrop, Frank H., Riverside, Alabama.
Collective exhibit of Alabama pine lumber and other pine products.

Leland, G. Banning, Fifth and Main Streets, Cincinnati, Ohio.
Ohio.—Mahogany and hardwood.

Littleford, Frank & Brothers, Pickering Building, Cincinnati, Ohio.—Hardwood.

Love, Boyd & Company, Nashville, Tennessee.
Hardwood lumber.

Lumbermen's Club of Cincinnati, Cincinnati, Ohio.
Collective exhibit of hardwoods and other lumber.

Maley, Thompson & Moffett, Eighth Street and McLean Ave-nue, Cincinnati, Ohio.—Walnut and hardwood.

Nashville Hardwood Lumber Manufacturers, Nashville, Tenn-essee.—Collective exhibit of lumber.

Nelson, B. F., Minneapolis, Minnesota.
Collective exhibit of white pine lumber and other forest products of the Mississippi Valley.

North Branch Lumber Company, 1735 N. Western Avenue, Chicago.—Hardwood flooring.

North Carolina Pine Association, Wilmington, North Caro-lina.—Collective exhibit of yellow pine lumber.

North Carolina State Board of Agriculture, Raleigh, North Carolina.—Commercial woods of North Carolina.

Pierce, W. E., & Company, Milford, New Hampshire.
Collection of wooden ware.

Price, W. S., Manufacturers Record Building, Baltimore, Maryland.—Collective exhibit of oak and other hardwoods.

Pungo Lumber Company, Washington, North Carolina.
Yellow pine lumber.

Ransom, John B., & Company, Nashville, Tennessee.
Lumber.

Rittenhousen & Embree Company, 3500 Centre Avenue, Chicago.—Hardwood flooring.

Ritter, W. M., Columbus, Ohio.
Collective exhibit of manufactured hardwoods.

Roanoke Railroad & Lumber Company, Norfolk, Virginia.
Yellow pine lumber.

Roper, John L., Norfolk, Virginia.
Collective exhibit of North Carolina pine lumber and other pine products.

Scatcherd, John N., Buffalo, New York.
Collective exhibit of hardwoods.

Sloan, George F., & Brother, Baltimore, Maryland.
Yellow pine lumber.

Southern Railway Company, 719 13th Street, N. W., Washington, D. C.—Collection of woods of the Southern United States. The logs, lumber, etc., used in the construction of the Annex to Forestry Building.

South Side Lumber Company, Ashland Avenue and 22d Streets, Chicago.—Hardwood flooring.

Stephens, Henry, & Company, Detroit, Michigan.
Hardwood flooring.

Stone, T. B., Lumber Company, 74 Mitchell Building, Cincinnati, Ohio.—Yellow poplar and hardwood.

Suffolk Saw Mill Company, Suffolk, Virginia.
Yellow pine lumber.

Surry Lumber Company, Baltimore, Maryland.
Yellow pine lumber.

Swain Brothers, Winton Place, Cincinnati, Ohio.
Hardwood.

Tunis Lumber Company, Norfolk, Virginia.
Yellow pine lumber.

Wellford, Walker L., Memphis, Tennessee.
Collective exhibit of cooperage stock.

Wilborg, Hanna & Company, Gest Street and McLean Avenue, Cincinnati, Ohio.—Yellow poplar and hardwood.

Wilce, T., Company, Throop and 22d Streets, Chicago.
Hardwood flooring.

Wisconsin Land & Lumber Company, Hermansville, Michigan.—Hardwood flooring.

Young, W. D., West Bay City, Michigan.
Collective exhibit of maple flooring.

CLASS 51.

HUNTING EQUIPMENTS.

Forest and Stream Publishing Company, New York.
Publications and illustrations.

Oneida Community, Limited, Kenwood, New York.
The Newhouse animal trap.

Savage Arms Company, Utica, New York.
Repeating rifles.

Smith & Wesson, Springfield, Massachusetts.
Revolvers and pistols, and shooting gallery at Vincennes.

Tiffany & Company, New York City.
Hunting equipments.

CLASS 52.

PRODUCTS OF HUNTING.

Department of Agriculture, U. S. A., Washington, D. C.
Mounted groups of raccoons and opossums.

Elliot, Dr. D. G., Field Columbian Museum, Chicago.
Publications upon mammals and birds.

Forest and Stream Publishing Company, New York.
Publications and illustrations.

Gunther, J., Middletown, New York.
Mounted heads of wild animals.

Hudson, Charles B., New York.
Drawings of seals, sea lions, etc., loaned by the "Century Company," New York.

Jordan, Dr. David Starr, Stanford University, California.
Publication upon birds, mammals, etc.

Mather, Fred, Lake Nebagomain, Douglas County, Wisconsin.
Publication upon hunting.

Nelson, E. W., Washington, D. C.
Report upon collections made in Alaska.

North Carolina State Board of Agriculture, Raleigh, New York.—Group of aquatic birds, loons, quail, opossums, turtles.

Shiras, George, 3d, Pittsburg, Pennsylvania.
Flashlight pictures of living wild animals.

Wallihan, A. G., Lay, Colorado.
Photographs of wild game.

CLASS 53.

FISHING EQUIPMENT AND PRODUCTS—FISH CULTURE.

Abbey & Imbrie, New York City.
Angling tackle.

American Museum of Natural History, Central Park, New York.—Mounted lobster. Weighed 33 lbs. when alive.

Atwater, Prof. W. O., Chemical Laboratory, Wesleyan University, Middletown, Connecticut.—Publication upon chemical analysis of fishes and invertebrates.

Baldwin, A. H., Zoological Artist, 1826 G Street, Washington, D. C.—Fish drawings.

Bartlett, Dr. S. P., Quincy, Illinois.
Publications upon fishes and fish culture.

Bean, Barton A., U. S. National Museum, Washington, D. C.
Publications upon fishes.

Bean, Tarleton H., 50 West 17th Street, New York City.
Gill nets, fishing line and salmon spear used by Alaskan Eskimo; publications on fish, fisheries and fish culture.

Benn, John, San Francisco, California.
Artificial flies.

Bien, Julius, & Company, 140 6th Avenue, New York.
Chromolithographs of fish drawings.

Blackford, Dr. C. M., Jr., Craig Brook Station, East Orland, Maine.—Publications upon fish culture.

Bumpus, Prof. H. C., Brown University, Providence, Rhode Island.—Publications upon marine zoölogy.

California Paris Exposition Commission, San Francisco, Cali- fornia.—Fishery apparatus and illustrations. Fish casts.

Call, Dr. R. Ellsworth, Brooklyn Institute of Arts and Sciences, 185 Brooklyn Avenue, Brooklyn, New York.—Publications.

Dean, Dr. Bashford, Columbia University, New York.
Publications upon development and relationships of fishes, etc.

Department of Forests, Fisheries, etc., U. S. Commission to Paris.—Photographs of persons eminent as investigators and authors in various branches of natural history.

Eigenmann, Prof. C. H., Indiana University, Bloomington, Indiana.—Publications upon fishes and other aquatic animals.

Evermann, Dr. B. W., U. S. Fish Commission, Washington, D. C.—Publications upon fishes of North America, West Indies, etc.

Forest and Stream Publishing Company, New York.
Publications and illustrations.

Fraine, Thomas W., 16 Joslyn Park, Rochester, New York.
Rainbow trout, Sunapee trout and Grayling.

Gilbert, Prof. C. H., Leland Stanford, Jr., University, Cali- fornia.—Publications upon fishes.

Green, Monroe A., Rochester, New York.
Shad-hatching box for transporting eggs of fish; artificial flies on barbless hooks.

Hooper, W. J., Manufacturing Company, 116 South St., Baltimore, Maryland.—Models of seines, nets and traps used in the fisheries.

Howarth, S., Florissant, Colorado.
Artificial flies for trout and grayling.

Jenkins, Dr. O. P., Leland Stanford, Jr., University, California.—Publications on fishes.

Jordan, Dr. David Starr, Leland Stanford, Jr., University, California.—Publications upon fishes, cetacea, etc.

Kendall, Dr. W. C., U. S. Fish Commission, Washington, D. C.
Publications relating to fish, fisheries, and fish culture.

Kirsch, P. H., Benson, Arizona.
Publications on fishes.

Kofoid, Prof. C. A., Illinois State Laboratory of Natural History, Urbana, Illinois.—Publications upon fresh water zoölogy.

Linton, Prof. Edwin, Biological Laboratory, Washington and Jefferson College, Washington, Pennsylvania.—Publications.

McCarthy, Eugene, Syracuse, New York.
Publications upon fish and fishing.

Massachusetts Board of Paris Exposition Managers, Boston.
Model of Gloucester fishery and fishery apparatus.

Mather, Fred, Lake Nebagomain, Douglas County, Wisconsin.
Publications upon fish and fishing.

Meek, Seth Eugene, Field Columbian Museum, Chicago.
Publications upon fish.

Milam, B. C., & Son, Frankfort, Kentucky.
Fishing reels.

New Bedford Oil Company, East Boston, Massachusetts.
Watch, clock, and chronometer oils.

Rogers, W. H., 257 Washington Street, Boston, Massachusetts.—Drawings of the Rogers Fishway.

Smith, Hugh M., United States Fish Commission, Washington, D. C.—Publications upon fish and fisheries.

Smith, Eugene, 317 Washington Street, Hoboken, New Jersey.
Publications upon fish and reptiles.

Smith, Jay C., 26 T. Wharf, Boston, Massachusetts.
Models of lobster fishing vessel and apparatus.

Stejneger, Dr. Leonhard, U. S. National Museum, Washington, D. C.—Publications upon fur seal, sea cow, natural history of Commander Islands, etc.

Stevenson, C. H., United States Fish Commission, Washington, D. C.—Publications upon fishery methods and preservation of fish for food.

Tanner, Commander, Z. L., U. S. N., 1613 New Hampshire Ave., Washington, D. C.—Publication upon deep sea investigation.

Tiffany & Company, Union Square, New York.
American fresh water pearls and shells in which they are found.

Titcomb, John W., President Fish and Game Commission, St. Johnsbury, Vermont.—Publications relating to fish, fisheries and fish culture.

True, F. W., Washington, D. C.
Publications relating to fisheries.

United States Commission of Fish and Fisheries, Washington, D. C.—Models of apparatus for hatching and transporting fish; models and drawings of fishes. Photographs and statistics.

Wilcox, W. A., U. S. Fish Commission, Washington, D. C.
Publications relating to fish, fisheries and fish culture.

Wing, J. & W. R., New Bedford, Massachusetts.
Whaling implements.

Woolman, Prof. A. J., Central High School, Duluth, Minnesota.—Publications relating to fish, fisheries and fish culture.

CLASS 54.

APPLIANCES FOR GATHERING WILD CROPS, AND PRODUCTS OBTAINED.

North Carolina State Board of Agriculture, Raleigh, North Carolina.—Collection of herbs, roots, barks, seeds, etc., used in medicine.

GROUP X.

FOOD STUFFS.

CHARLES RICHARDS DODGE, DIRECTOR.

CLASS 55.

EQUIPMENT AND METHODS EMPLOYED IN THE PREPARATION OF FOODS.

Armour & Company, Chicago, Illinois.
Operations of meat slaughter and packing.

Chase, A. J., Sudbury Building, Boston, Massachusetts.
Chase's patent cold-blast butter cooler.

Deal, H. M., & Company, Bucyrus, Ohio.
California grain cleaners and scourers.

Enterprise Manufacturing Company, Philadelphia, Pennsylvania.—Food mills.

Libby, McNeill & Libby, Union Stock Yards, Chicago, Illinois.
Model of packing house in operation.

Liquid Air Refrigeration and Power Company, Boston, Massachusetts.—Chase's cold blast refrigerator.

North Brothers Manufacturing Company, Philadelphia, Pennsylvania.—Ice cream freezers and accessories.

Swift & Company, Union Stock Yards, Chicago, Illinois.
Model of a refrigerator railway car.

Union Stock Yards Company, Chicago, Illinois.
Photographic illustration of facilities and methods of marking cattle, sheep, and swine.

CLASS 56.

FARINACEOUS PRODUCTS AND THEIR DERIVATIVES.

Alliance Milling Company, Denton, Texas.
Flour manufactured from soft winter wheat.

American Cereal Company, Chicago, Illinois.
Collective exhibit of cereal products.

Battle Creek Sanitarium Health Food Company, Battle Creek, Michigan.—Cereal products and health foods.

Cascade Mill, Akron, Ohio.
Cereals: Wheat Farina, Graham, Wheat Graham, Amber Graham.

Cereal Food Company, Peoria, Illinois.
Hulled corn.

Cereal Machine Company, Worcester, Massachusetts.
Shredded wheat products.

Cereal Mill, Akron, Ohio.
Cereals: American steel cut oatmeal, farinose, cracked wheat, oatmeals, oat flour, cornmeal, golden maize, hominy, etc.

Decatur Cereal Mill Company, Decatur, Illinois.
White corn products, prepared by modern processes of milling. All kiln dried.

Del Monte Milling Company, San Francisco, California.
Flour, cereals, and whole grains.

Empire Mill, Akron, Ohio.
Cereals: Hominy, cornmeal, corn flour, rye flour, barley groats.

Health Food Company, 61 5th Avenue, New York.
Wheatena, infants' and invalids' food.

Imperial Mill, Chicago, Illinois.
Oatmeals, steel cut and ground.

Indianapolis Hominy Mills, Indianapolis, Indiana.
Maize products, for food and for brewing.

National Starch Manufacturing Company, 1 Broadway, New York.—Pearl starch, Maizena (brand of corn flour), corn oil.

North Star Mills, Cedar Rapids, Iowa.
Cereals: Flaked oat groats, cornmeal, bolted cornmeal, cream cornmeal, and corn flour.

Pillsbury-Washburn Company, Minneapolis, Minnesota.
Exhibit of flour and cereal products.

Postum Cereal Company, Battle Creek, Michigan.
Grape nuts, breakfast food, and postum cereal coffee.

Sanitas Nut Food Company, Limited, Battle Creek, Michigan.
Nut foods, nut meal, brumose, malted nuts, and protose.

Scotch Oats Mill, Kansas City, Missouri.
Rolled oats. Scotch rolled oats.

Sperry Flour Company, San Francisco, California.
"Germea," a food for infants, etc.

Stone Mill, Akron, Ohio.
Quaker wheat flour, wheat products.

Sugar City Cereal Mills, Norfolk, Nebraska.
Wheatling and Farina.

United States Frumentum Company, Detroit, Michigan.
Frumentum corn flakes, also white corn flour.

Washburn-Crosby Company, Minneapolis, Minnesota.
Exhibit of flour and cereal products.

CLASS 57.

BREAD AND PASTRY.

National Biscuit Company, Chicago, Illinois, and New York.
Exhibit of leading forms of bakery goods, biscuits, cakes, etc., manufactured in the United States.

CLASS 58.

PRESERVED MEATS, FISH, VEGETABLES, AND FRUIT.

Ames, J. O., Red Bluff, California.
"Kelsey" plums.

Alaska Packers' Association, San Francisco, California.
Canned salmon.

Anderson, O. M., Red Bluff, California.
White cling peaches.

Anker Manufacturing Company, New York City.
Bouillon capsules, liquid bouillon, junket capsules.

Armour & Company, Chicago.
Canned foods, sausages, smoked meats, extract of beef.

Armour Packing Company, Kansas City, Missouri.
Preserved meats. Pork and beef products.

Barataria Canning Company, Biloxi, Mississippi.
Canned crab meat, shrimp, fish, oysters, figs, canned and preserved.

Barr, G. W., Fresno, California.
Dried fruits.

Beardsley's, J. W., Sons, New York City.
Shredded codfish, sliced smoked beef, boneless herring.

Bouillon Stock Manufacturing Company, The, Chicago.
Wahl's bouillon stock, made from yeast plant only.

Brown, Paul Taylor, Company, New York City.
Vegetables in tin and in glass.

California Fish Company, Los Angeles, California.
Sardines.

California Paris Exposition Commission, San Francisco, California.—Canned goods.

Campbell, Joseph, Preserve Company, Camden, New Jersey.
Soups.

Castle Brothers, Fresno, California.
Dried apricots, peaches, and pears.

Chipman, N. P., Red Bluff, California.
"Muir" peaches.

Cone, D. S., Red Bluff, California.
Dried prunes, peaches, and pears.

Curtice Brothers Company, Rochester, New York.
Canned fruits, vegetables, soups, and meats.
Preserved fruits and vegetables.

Dairymen's Union, The, San Francisco, California.
Smoked meats.

Department of Agriculture, U. S. A., Bureau of Animal Industry, Washington, D. C.—Collective exhibit of meats, frozen, salted and canned; meat products.

Doxsee, J. H., & Sons, Islip, New York.
Canned clams and clam juice.

Duncan, Mrs. M., Red Bluff, California.
Dried fruits.

Erie Preserving Company, Buffalo, New York.
Canned fruits and vegetables; table delicacies.

Forsythe, William, Fresno, California.
Dried figs and raisins; seeded raisins.

Franco-American Food Company, The, Jersey Heights, New Jersey.—Preserved soups and meats.

Fresno Chamber of Commerce, Fresno, California.
Dried fruits.

German-American Provision Company, Chicago.
Canned meats and sausages.

Geneva Preserving Company, Geneva, New York.
Canned fruit and vegetables.

Goetjen, N., San Francisco, California.
Canned soups, meats, and vegetables.

Hayden Packing Company, San Francisco, California.
Evaporated vegetables.

Hickmott Canning Company, San Francisco, California.
Canned asparagus.

Hobbs, A. L., Fresno, California.
Dried fruit.

Howell, B. F., Red Bluff, California.
Nectarines.

Huckins, J. H. W., & Company, Boston, Massachusetts.
Canned soups and deviled meats.

Imperial Packing Company, Canajoharie, New York.
Canned bacon, beef and ham, sliced.

Inderriaden, J. B., Fresno, California.
Dried fruit.

Jensen, N. P., Fresno, California.
Dried fruit.

Kapp & Street, San Francisco, California.
Canned meats, tamales, chili con carne, frijolas, enchilades, chicken soup.

Kemp, Day & Company, New York.
Canned vegetables, fruits, and fish products.

Kimble Estate, Fresno, California.
Dried fruits.

Knox, Charles B., Johnstown, New York.
Gelatine for domestic purposes.

Lewis, W. L., Fresno, California.
Dried fruit.

Lewis, D. W., Fresno, California.
Dried fruits.

Libby, McNeill & Libby, Chicago.
Canned meats, soups, smoked meats, sausage.
Philadelphia, 1876, bronze medal; Paris, 1878, gold medal.

Los Angeles Chamber of Commerce, Los Angeles, California.
Dried fruit.

Loud & Gerling, Pomona, California.
Dried apricots.

McMenamin & Company, Hampton, Virginia.
Deviled crabs, in tins.

Malaga Co-operative Company, Fresno, California.
Dried fruits.

Malone & Smith, Ontario, California.
Dried prunes.

Marcariar & Company, Fresno, California.
Dried fruits.

Michigan Carbon Works, Detroit, Michigan.
Gelatine, for food and for mechanical arts.

Miley, A. C., Fresno, California.
Dried fruit.

Minnewawa Vineyard, Fresno, California.
Dried fruit.

Morris, Nelson, & Company, Chicago.
Canned meats.

Neal, John R., & Company, Boston, Massachusetts.
Finnan haddie.

Noble Brothers, Fresno, California.
Dried fruits.

Pacific Steam Whaling Company, San Francisco, California.
Canned salmon.

Phoenix Packing Company, Fresno, California.
Dried fruits.

Richardson & Robbins, Dover, Delaware.
Canned meats, oysters, plum pudding.

Runyon, E. W., Red Bluff, California.
Crawford peaches.

Russell, Edward T., & Company, Boston, Massachusetts.
Canned American sardines.

Sacramento River Packers' Association, San Francisco, California.—Canned salmon.

San Gabriel Fruit Company, San Gabriel, California.
Dried apricots and peaches.

Santa Ana Chamber of Commerce, Santa Ana, California.
Dried prunes, apricots, and peaches.

Sea Beach Pickling Works, Warrenton, Oregon.
Minced sea clams.

Swift & Company, Chicago.
Canned meats and food products; hams, bacon, lard.

Tamale I. X. L. Company, San Francisco, California.
Tamales, frijolas, enchiladas, chili con carne, chicken soup.

Trowbridge, D. S., Fresno, California.
Dried fruits.

Van Camp Packing Company, Indianapolis, Indiana.
Canned meats, soups, and vegetables.

Viau, Lewis, Fresno, California.
Dried fruits.

Voice Brothers, Fresno, California.
Dried yellow and Stanwick nectarines.

Wagner, Martin, Company, Baltimore, Maryland.
Canned pineapple.

Welch Grape Juice Company, Westfield, New Jersey.
Grape juice.

Winkle, G. W., Fresno, California.
Dried fruit.

Wonson, William H., & Son, Gloucester, Massachusetts.
Halibut.

Zimmerman Brothers, Fresno, California.
Dried fruit.

CLASS 59.

SUGAR AND CONFECTIONERY—CONDIMENTS AND RELISHES.

Baker, Walter, & Company, Limited, Dorchester, Massachusetts.—Cocoa and chocolate preparation.

Barrett & Barrett, Chicago, Illinois.
Vinegars.

Bishop & Company, Los Angeles, California.
Crystallized glacéd fruits.

Clarksville Cider Company, St. Louis, Missouri.
Vinegar.

California Canneries Company, Limited.
Canned fruits, jams, and preserves.

California Packing Company, San Francisco, California.
Preserves and jams. Condiments and relishes.

Crystal Salt Works, Los Angeles, California.
Table salt in glass jars; half ground salt for dairy or table purposes.

Curtice Brothers Company, Rochester, New York.
Maple syrups and sugars.

Department of Agriculture, Washington, D. C.
Collective exhibit of sugars, syrups and confections.

Dilling & Company, Marion, Indiana.
Confections. Satin Finish Stick Candy and Buttercup goods, packed in tin or glass.

Flickinger, J. H., Company, San Jose, California.
Canned fruits.

Gulden, Charles, 46-48 Elizabeth Street, New York.
Prepared mustards.

Hayne & Whitaker, New York.
Milk sugar.

Heinz, H. J., Company, Pittsburg, Pennsylvania.
Pickles, preserves, and food products. Fifty-seven varieties shown. Tomato ketchup, tomato chutney, and tomato soup; baked beans with tomato sauce; sweet pickles; midget gherkins; India relish; evaporated horseradish. We produce the seed, cultivate where climate and soil produce in perfection and use perfect vegetables only.
Philadelphia, 1876, medal; Paris, 1878, medal; Chicago, 1893, medal.

Hill, James, & Sons, Los Angeles, California.
Pickled olives.

Johnson, J., Lompoc, California.
Brown mustard, condiments, and relishes.

Joslin, C. T., Malden, Massachusetts.
Maple syrups and sugars.

Kenney, Seth, & Son, Morristown, Minnesota.
Sorghum molasses.

Lewis, S. B., Lompoc, California.
White mustard, condiments, and relishes.

Los Alamitos Beet Sugar Company, Los Alamitos, California.
Beet sugar and beet products.

Marsh, Miss Bessie, South Pasadena, California.
Crystallized flowers.

Louisiana Sugar Planters' Association, New Orleans, Louisiana.—Cane-sugar, molasses, massequite, etc.

Michigan Beet Sugar Association, Detroit, Michigan.
Collective exhibit of beet sugar of various grades.

Miller, George, & Son, 255-257 South Third St., Philadelphia, Pennsylvania.—A large variety of cocoa, chocolates, and candies, bonbons, etc.

Pan Confection Company, Chicago, Illinois.
Candies and confections.

Pioneer Salt Works, Mount Eden, California.
Table salt, rock salt for manufacturing purposes, dairy salt, coarse salt, and refined table salt.

Redondo Salt Works, Los Angeles, California.
Table salt in glass jars.

Richardson, William D., Fredericksburg, Virginia.
Pickles.

San Francisco Packing Company, San Francisco, California.
Green pickled California olives.

Shields, Mrs. Emily, Mills, California.
Orange marmalade.

Soniat, L. M., Dorceyville, Louisiana.
Cane sugar, molasses, and cane products.

Southern California Salt Company, Los Angeles, California.
Table salt.

Spreckels Sugar Company, Salinas, California.
Beet sugar and beet products.

Teel, Mrs. A. E., Minneapolis, Minnesota.
Candied fruits.

Towle Syrup Company, St. Paul, Minnesota.
Log cabin maple syrups and sugars.

Union Pacific Salt Works, San Francisco, California.
Table salt.

Welch Maple Sugar Company, Burlington, Vermont.
Maple syrups and sugars.

Williams, George, Los Angeles, California.
Worcester sauce.

CLASS 60.

WINES AND BRANDIES.

Adams, A. P. & Company, Fresno, California.
Wine.

Albertz, Ferdinand, Cloverdale, California.
Wines and brandies.

Baldwin, C. A., West Side, Santa Clara, California.
Wines.

Barton Estate Company, Fresno, California.
Wines and brandies.

Beard, John L., Warm Springs, California.
Wines.

Ben Lomond Wine Company, Ben Lomond Vineyard, Santa Cruz, California.—Wines.

Beringer Brothers, St. Helena, California.
Wines and brandies.

Boettcher, H., Los Angeles, California.
Wines and brandy.

Brotherhood Wine Company, New York.
Wine.

California Paris Exposition, San Francisco, California.
Wines, red and white; sweet wines and boiled wines; sparkling wines; brandies.

California Wine Association, San Francisco, California.
Wines.

California Winery Company, Sacramento, California.
Wines.

Chaix & Bernard, San Francisco, California.
Wines.

Crellin, Louis, Pleasanton, California.
Wines.

Cupertino Wine Company, "Las Palmas" Vineyard, Mountain View, California.—Wines "Cabernet Franc," "Cabernet Sauvignon," "Semillion."

Dewey & Sons, New York.
Wines.

Duval, A., Livermore, California.
Wine.

Eisen Vineyard, Fresno, California.
Wines.

Department of Agriculture, Division of Chemistry, Washington, D. C.—Ordinary wines, red and white; sweet wines and boiled wines; sparkling wines; brandies.

Empire State Wine Company, Penn Yan, New York.
Wines.

Engels & Krudwig Wine Company, Sandusky, Ohio.
Wines and brandies.

Finke's, A., Widow, San Francisco, California.
Wines.

Florida Brandy Distilling Company, Tallahassee, Florida.
Wines, brandies, and cordials.

Garrett & Company, Weldon, North Carolina.
Wines.

Germain, Edward, Wine Company, Los Angeles, California.
Wines.

Germania Wine Cellars Company, Hammondsport and Rheims, New York.—Wines and brandy.

Gier, Theodore, Company, Oakland, California.
Wines.

Grierson Oldham & Company, San Francisco, California.
Wines and brandies.

Guasti-Secondo, Los Angeles, California.
Wines.

Gundlach Bundschu Wine Company, Bacchus Vineyards, Rhine Farm, Sonoma, California.—Wines and brandies.

Gunn, James O. B., Windsor, California.
Wines.

Hammond, Charles Mifflin, Ma Tel Vineyard, Upper Lake, California.—Wines and brandy.

Haraszthy, Arpad, San Francisco, California.
Wines.

Hastings, Estate, La Jota Vineyard, Angwin, California.
Wines.

Heney, Richard, Jr., Chateau Ricardo Vineyard, Cupertino, California.—Wines.

Hess, Frederick, "Pine Crest Vineyard," Howell Mountain, Napa County, California.—White wine, "Riesling."

Hoelscher, William, & Company, San Francisco, California.
Wines.

Hommel, M., 924 Clinton St., Sandusky, Ohio.
Wines.

Italian-Swiss Agricultural Colony, Asti, California.
Wines and brandy.

Keyes, W. S., Liparita Vineyard, Angwin, California.
Wines.

Koster, John L., Mount Hamilton Vineyard, San Jose, California.—Wines.

Lake Keuka Wine Company, Hammondsport, New York.
Wines.

McIver, C. C., Linda Vista Vineyard, Mission San Jose, California.—Wines.

Malta, George H., St. George Vineyard, Fresno, California.
Wines.

Mann, C. M., Santa Rosa, California.
Wines and brandy.

Masson, Paul, San Jose, California.
Wines.

Merithew, J. C., Prospect Vineyard, Westside, California.
Wines and brandy.

Meyer, John, Santa Cruz, California.
Wines.

Migilavacca, G., Napa City, California.
Wine.

Monticello Wine Company, Charlottesville, Virginia.
Wines.

New Hammondsport Wine Company, Hammondsport, New York.—Wines.

Palmtag, William, Palmtag's Vineyard, Hollister, California.
Wines and brandy.

Pleasant Valley Wine Company, Rheims, New York.
Wine.

Radovich, Bozo, San Jose, California.
Wine.

Repsold & Company, San Francisco, California.
Wines and brandies.

St. Hubert Wine Company, San Francisco, California.
Wine.

San Luis Vineyard, Tallahassee, Florida.
Wines and brandies.

Schilling, C., & Company, San Francisco, California.
Wines.

Schram, Jacob, Schramberger Vineyard, St. Helena, California.—Wines.

Sherb, Ignace, La Crescenta, Los Angeles County, California.
Red wine, "Zinfandel."

Sierra Madre Vintage Company, Lamanda, California.
Wines and brandy.

Smith, Julius Paul, Olivina Vineyard, California.
Wines.

Sormano, G., Los Angeles, California.
Wines and brandy.

Southern California Wine Company, Los Angeles, California.
Wines and brandy.

To-Kalon Wine Company, Washington, D. C.
Wines.

Urbana Wine Company, Urbana, New York.
Wines.

Vina Vineyard and Distilling Company, Vina, California.
Brandies.

Wehner, William, Lomas Azules Vineyard, Evergreen, California.—Wines.

West, George, & Sons, El Pinal Vineyard, Stockton, California.—Wines and brandies.

Wetmore-Bowen Company, Cresta Blanca Vineyards, Livermore, California, and San Francisco.—Wines.

Woollacott, H. J., Los Angeles, California.
Wines and brandy.

Xander, Christian, Washington, D. C.
Wines.

CLASS 61.

SYRUPS AND LIQUEURS—DISTILLED SPIRITS—COMMERCIAL ALCOHOL.

Bernheim Brothers, Louisville, Kentucky.
Bourbon whiskeys.
Chicago, 1893, medal.

Cook & Bernheimer Company, 144 Franklin St., New York.
Old Valley and Mount Vernon whiskeys.

Crown Distilleries Company, San Francisco, California.
Bourbon, rye and malt whiskeys; cocktails.

Cunningham, J. J., Louisville, Kentucky.
Bourbon whiskeys.

Department of Agriculture, U. S. A., Division of Chemistry,
Washington, D. C.—Collective exhibit of whiskies, rums, alcohols, syrups, and liquors.

Faure, M., Los Angeles, California.
Tonic made from fruit juices, "Independence."

Florida Brandy Distilling Company, Tallahassee, Florida.
Cordial.

Hamburger, P. H., Company, Brownsville, Pennsylvania.
Rye whiskeys.

Heublein, G. T., & Brothers, Hartford, Connecticut.
Whiskeys and cocktails.

Kirk, H. B., & Company, 67-69 Fulton St., New York.
Old Crow rye whiskey.

Large Distilling Company, Pittsburg, Pennsylvania.
Rye whiskeys.

McCulloch, J. W., Owensboro, Kentucky.
Green River whiskey.

Maryland Distilling Company, Baltimore, Maryland.
Rye whiskeys.

Meadville Distilling Company, Vallonia, Pennsylvania.
Rye whiskeys.

Netter, David, & Company, Philadelphia, Pennsylvania.
Rye whiskey, Telegram whiskey.

Old Nick Williams Company, Williams, North Carolina.
Whiskey, "Old Nick Williams."

Rheinstrom, Bettman, Johnson & Company, Cincinnati, Ohio.
Liquors, cordials, and bitters.

Steinhart Brothers & Company, 134 Mott St., New York.
Roxbury rye whiskeys.

Stitzel Brothers, Louisville, Kentucky.
Bourbon whiskey.

Victor Malt Whiskey Company, San Francisco, California.
Malt whiskey.

Xander, Christian, Washington, D. C.
Cordials and bitters.

CLASS 62.

VARIOUS BEVERAGES.

Ballantine & Sons, Newark, New Jersey.
Varieties of malted liquors.

Baltz, J. & P., Brewing Company, Philadelphia, Pennsylvania.
Pale and dark lager.

Barrett & Barrett, Chicago, Illinois.
Ciders.

Beadleston & Woerz, New York.
Gold label, German brew, lager, Culmbacher beers.

Bolen & Byrne Manufacturing Company, New York.
Ciders and beers.

Clarksville Cider Company, St. Louis, Missouri.
Cider.

Department of Agriculture, Division of Chemistry, Washington, D. C.—Collective exhibit of ales, beers, ciders, fermented drinks and mineral waters.

Feigenspan, Christian, & Company, Newark, New Jersey.
India pale ale, etc.

Goebel Brewing Company, Limited, Detroit, Michigan.
Beer, Porter, and malt extract.

Gund, John, Brewing Company, La Crosse, Wisconsin.
Extra Pale and Peerless ale.

Heissler & Junge Company, Chicago, Illinois.
Malt extract.

Heurich, Christian, Brewing Company, Washington, D. C.
Maerzen and Senate beer.

Ice and Cold Storage Company, Los Angeles, California.
Ginger ale.

Indianapolis Brewing Company, Indianapolis, Indiana.
Beers, Duesseldorfer, etc.

Jackson, G. H. T., Napa Soda Springs, California.
Natural aerated water.

Lembeck & Betz Eagle Brewing Company, Jersey City, New Jersey.—Beers, "Bayerisches Hofbrau," "American Club," and "Extra."

Liebmann's, S., Sons, Brewing Company, 36 Forrest St., Brooklyn, New York.—Beer in bottles. Pale beer, Rheingold and Wuerzburger beer.

Lincoln Springs, Saratoga Springs, New York.
Mineral water.

Long Island Brewing Company, Brooklyn, New York.
Beers, Black Label, etc.

Quaboag Mineral Springs, North Brookfield, Massachusetts.
Mineral water.

Quinnipiac Brewing Company, New Haven, Connecticut.
Beers.

Ramos, Joaquin, Havana, Cuba.
Beers.

Saegertown Mineral Springs Company, Saegertown, Pennsylvania.—Ginger ale, sarsaparilla, birch, lemon sour, and mineral water.

San Francisco Breweries, Limited, San Francisco, California.
Export beer.

Schoenhofen, P., Brewing Company, Chicago, Illinois.
Beers, Edelweiss, Export, and Schoenhofenbrau.

Seattle Brewing & Malting Company, Seattle, Washington.
Rainier beer.

Vartray Water Company, 33-39 Franklin St., Buffalo, New York.—Ginger ale, sarsaparilla, seltzer, soda water, and sparkling water.

White Rock Mineral Springs Company, Waukesha, Wisconsin.—White Rock ozonate mineral spring water.

GROUP XI.

MINING AND METALLURGY.

FREDERICK J. V. SKIFF, DIRECTOR.

CLASS 63.

WORKING OF MINES, ORE BEDS, AND STONE QUARRIES.

Abbott, A., Ione, California.
Sandstone.

Acheson, E. G., Niagara Falls, New York.
Carborundum and products as formed by its manufacture.

Acme Mining Company, Robinson Mine, Amador County, California.—Gold quartz.

Adams, F., Mesquite Mountain Mine, Kern County, California.—Gold quartz (with pyrite).

Adams, J. W., Ormsby County, Nevada.
Gypsum.

Afterthought Mining Company, Shasta County, California.—Copper ore.

Ajax Mining Co., Ajax Mine, Mammoth, Utah.
Copper ore.

Alabama Consolidated Iron & Coal Company, Birmingham, Alabama.—Shelby brown ores.

Alabama Mining Company, Alabama Mine, Tuolumne County, California.—Gold quartz.

Alberene Stone Company, New York City.
Soapstone and slate.

Alexander, L. L., Arsenical Mine, El Dorado County, California.—Gold quartz.

Alexander Mining Co., Galena, Kansas.
Zinc and lead ore, breccia, sphalerite and chert.

Allegheny Quarries, Lancaster, Ohio.
Sandstone.

Allen, J. P., Eureka Quarry, Placer County, California.
Granite.

Alpine Plaster & Cement Company, Acton, California.
Gypsum.

Alps Mining Company, Nevadaville, Colorado.
Gold and copper ore.

Altoona Coal & Coke Company, Altoona, Pennsylvania.
Bituminous coal, coke.

Altoona Quicksilver Mining Company, Altoona Mine, Trinity County, California.—Quicksilver ore, cinnabar.

Alvord, J., Alvord Mine, San Bernardino County, California.—Gold in calcite.

Amador Mining Company, Amador County, California.
Rich gold quartz, telluride, azurite, foot wall, kaolin clay.

Amador Sandstone Company, Amador, California.
Sandstone.

Amalgamated Copper Co., The, Butte, Montana.
Copper and silver ores, copper matte; precipitated copper, silver, and gold.

American Coal Mining Company, Strawn, Texas.
Bituminous coal.

American Excelsior Consolidated Mining Company, Goodyear's Bar Creek, California.—Asbestos.

American Institute of Mining Engineers, New York City.
Transactions of the American Institute of Mining Engineers.

American Kaolin Company, Chester, Pennsylvania.
Kaolin, for manufacture of earthenware, etc.

American Mining Company, Chicago.
Iron ores.

American Mining Company, Gilpin County, Colorado.
Gold ore.

American & Nettie Mining Co., Ouray, Colorado.
Gold ore.

American Steel & Wire Co. of New Jersey, New York City.—Ores of iron and zinc.

Anaconda Coal Mining Company, Belt, Montana.
Bituminous coal.

Anamosa Quarries, Stone City, Iowa.
Limestone.

Andrews, Colonel A., San Francisco, California.
Facsimile of Dome of Pantheon of Paris, made of gold and silver.

Angel Island Stone Company, Angel Island, California.
Sandstone.

Angel's Mining Company, Cooke Mine, Calaveras County, California.—Gold Quartz.

Argillo Works, Carbon Cliff, Illinois.
Fire clay, for manufacture of fire brick, tiles, etc.

Arkansas Anthracite Coal Company, Montana, Arkansas.
Bituminous coal.

Armstrong, Charles, Ouray, Colorado.
Obsidian, occurring with vein material in Bachelor Mine.

Armstrong, D., Silver City, Nevada.
Silver ore.

Armstrong, Hurlbert & Sanders, Ouray, Colorado.
Silver lead ore, value $1,500 per ton.

Armstrong, Wheeler, Rome, New York.
Clay, for manufacture of brick, accompanied by bricklet.

Arroyo Grande Stone Company, Arroyo Grande, California.—Granite.

Ashland Coal, Iron & Railway Co., Ashland, Kentucky.
Bituminous coal.

Ashley Falls Marble Company, Ashley Falls, Massachusetts.—Marble.

Assyrian Gilsonite Company, Salt Lake City, Utah.
Gilsonite.

Atlas Mining Co., Prosperity, Missouri.
Zinc and lead ore, sphalerite, galena, greenockite, concentrates and tailings. Concentrates 60 per cent zinc.

Auld & Conger, Cleveland, Ohio.
Slate from Pennsylvania and Vermont.

Avonmore Coal & Coke Co., Leechburg, Pennsylvania.
Bituminous coal, coke.

A. Y. & Minnie Mining Co., Leadville, Colorado.
Silver lead ore.

Bacheller, F., Helvetia Mine, San Diego County, California.—Gold quartz (rich).

Bachelor Mining & Milling Co., Ouray, Colorado.
Silver ore, showing minerals tetrahedrite and stephanite.

Baggley, John, Two Bit, South Dakota.
Gold ore.

Bailey, Charles A., Suncook, New Hampshire.
Granite.

Bailey, J. J., Cripple Creek, Colorado.
Galena, showing bunch of native silver.

Baird, Henry Carey, & Co., Philadelphia, Pennsylvania.
Publication upon mining, metallurgy, mineralogy, and geology.

Baker, Charles, Oro Belle Mine, near Yuma, Arizona.
Copper ore.

Baldwin, A. M., Huntington, West Virginia.
Potters' clay, for manufacture of earthenware, etc.

Ballard & Martin, Rawhide Mine, Tuolumne County, California.—Gold quartz.

Ballard, Martin & Nevills, Tuolumne County, California.
Model of round timbering, one method used in California.

Bandera Flagstone Company, Redfield, Kansas.
Flagstone.

Bankers Mining Co., Joplin, Missouri.
Lead and zinc ores, galena, and sphalerite.

Banning Company, Catalina Island, California.
Serpentine marble.

Baptist Mining Co., Aurora, Missouri.
Zinc ore, gray calamine.

Barber Asphalt Paving Company, New York City.
Asphaltum and its manufactured products.

Barker, J. M., Willard, Utah.
Iron ore.

Barnard, E., Carlin, Nevada.
Diatomaceous earth.

Barney Marble Company, Swanton, Vermont.
Marble panels and columns for mines and metallurgy facade.

Barrett, J., Ormsby, Nevada.
Copper ore.

Bashford & Ferguson, Yavapai County, Arizona.
Gold ore.

Bay State Seam Face Granite Company, Boston, Massachusetts.—Granite.

Beal, Professor William, Murphy, North Carolina.
Asbestos.

Beard, C., German Light Mine, Placerville, California.
Gold quartz.

Beardsley, George F., Tarshish, California.
Silver ore.

Beasley Mining Co., Aurora, Missouri.
Zinc ore, calamine.

Beatty, John, Leete Island, Connecticut.
Granite.

Beaver Hill Coal Company, San Francisco, California.
Bituminous coal

Beck, C. J., Lott Mine, Fresno County, California.
Bismuthinite.

Belcher Mining Company, Comstock, Nevada.
Sulphurets.

Belden Mining Co., Gilman, Colorado.
Lead, sand carbonates of lead.

Belding, Milo M., Gouverneur, New York.
Marble.

Bell, T. J., Belmont, Nevada.
Lead and silver ore.

Benton, J., Benton Mine, Mono County, California.
Auriferous galena.

Berry, T. L., Santa Barbara, California.
Clay.

Bertha Blake Mining Co., Battle Mountain, Eagle County, Colorado.—Gray lead, carbonate sand.

Bertha Zinc & Mineral Company, Bertha, Virginia.
Iron and zinc.

Bertha Zinc Co., Pulaski, Virginia.
Zinc ore, calamite.

Berwind, White Coal Company, Philadelphia, Pennsyl- vania.—Coal; collection from the company's mines.

Bevis Rock Salt Co., Lyons, Kansas.
Salt.

Bickford & Bennett, Hillsboro, Sierra County, New Mexico.—Gold and copper ore.

Binns, Charles Fergus, Trenton, New Jersey.
Clays available for economic uses, chiefly ceramic wares, from all parts of the United States.

Birge, F. E., Yuba River, California.
Clay.

Birney, T. L., Birney Mine, Calaveras County, California.
Gold quartz.

Bishop, Joseph, Ambrosia Mine, San Benito County, California.—Stibnite.

Bishop, T. F., Blue Lead Mine, Butte County, California.
Auriferous gravel.

Bismarck Mining Co., Georgetown, Colorado.
Silver and lead ore.

Bituminous Rock Co., Consolidated, Santa Cruz County, California.—Bituminous rock.

Biwabik Mining Company, Biwabik, Minnesota.
Iron ore from Biwabik Mines.

Bixby, J. F., Tyson Mine, El Dorado County, California.
Chromic iron ore.

Black Metal Mining Company, Black Metal Mine, Shasta County, California.—Silver ore.

Black, Smith & Given, Chloride Mine, Trinity County, California.—Gold quartz.

Blake, P., Mount Gibbs Mine, Mono County, California.
Silver ore.

Blanc, A., Kern County, California.
Native antimony; also calcite from Placer County.

Blanding, Louis, Tuolumne County, California.
Gold quartz (rich) from the mines of San Guiseppe and Pine Nut.

Block, E., Honolulu Mine, Big Bug Mining District, Arizona.—Gold, silver, and lead ore.

Blossom, J. A., Battle Mountain, Nevada.
Copper ore.

Bogart Mining Co., Cripple Creek, Colorado.
Gold ore, porphyry and quartz, value $20 per ton.

Bogart, O. H., St. Lawrence Mine, Placer County, Cali- fornia.—Mariposite.

Bond, A. L., New Enterprise Mine, Boulder County, Cali- fornia.—Ores of telluride.

Bonelli, D., Lincoln County, Nevada.
Rock salt.

Booraem, R. E., New York. (Department of Mines, U. S. Commission to Paris.)—Publications of the United States upon geology, mineralogy, mines and metallurgy.

Booth Brothers & Hurricane Isle Granite Company, New York City.—Granite.

Boston & Aurora Mining Co., Aurora, Missouri.
Zinc ores, sphalerite, and crystallized calamine.

Boston & Colorado Smelting Company, The, Argo, Colorado.—Ores treated by these works.

Boston & Montana Consolidated Copper & Silver Mining Co., Butte, Montana.—Copper and silver ores, mattes, by-products.

Boston & Nevada Company, Lyon, Nevada.
Copper ore.

Boston Flint Paper Co., Hallowell, Maine.
Garnets.

Boston Little Circle Co., Boston, Mass.
Zinc ore, sphalerite, from 130 foot level.

Boston Quicksilver Mining Company, Napa County, California.—Quicksilver ore, cinnabar.

Bourne, Charles, Yavapai County, Arizona.
Gold ore.

Bowen, Daniel, Mayer, Arizona.
Onyx.

Boyd, John F., Standard Mine, Mono County, California.
Gold quartz.

Braddock Land & Granite Company, Little Rock, Ar- kansas.—Granite.

Brainerd, Shaler & Hall Quarry Company, Portland, Connecticut.—Brownstone.

Brandon Italian Marble Company, Brandon, Vermont.
Marble.

Brandywine Granite Company, Wilmington, Delaware.
Granite.

Braun, W., Lyon County, Nevada.
Copper ore.

Braverman, M., Drum Valley, California.
Graphite and other minerals.

Brazanovich, M., Esmeralda County, Nevada.
Copper ore.

Brazil Block Coal Company, Brazil, Indiana.
Bituminous coal.

Briar Block Coal Company, Brazil, Indiana.
Clay, for manufacture of brick, accompanied by bricklet.

Brick & Pipe Company, The, Terre Haute, Indiana.
Fire clays, for making fire brick, tiles, etc.

Brindle Steer Mining Co., Empire City, Kansas.
Zinc ore, sphalerite.

Brown Bear Mining Company, Brown Bear Mine,
Trinity County, California.—Gold quartz.

Brooks, W. H., Anne Arundel County, Maryland.
Potter's clay, for manufacture of earthenware, etc.

Brown Dake Mining Co., Sterling Mine, Hassayampa
District, Arizona.—Gold, silver, and lead ore.

Brown, George L., Lockwood Mine, Calaveras County,
California.—Gold quartz.

Brown, E., San Luis Obispo County, California.
Clay.

Brown, James B., Duncan Mine, Mariposa County,
California.—Gold quartz, clay.

Brown, T., Ventura, California.
Soapstone.

Brownville Maine Slate Company, Worcester, Maine.
Slate.

Bullion, Beck & Champion Co., Bullion Beck Mine,
Eureka, Utah.—Silver lead ore and hard carbonates of lead.

Bullion Mining Company, Bullion Mine, Tulare County,
California.—Gold quartz, copper ore from Plumas County.

Bullock, M. C., Manufacturing Company, Chicago.
Diamond pointed prospecting core drills, diamond bits, cores, and boring tools.
Chicago, 1893, four medals.

Bunko Mining Co., Cave Spring, Missouri.
Zinc ore, sphalerite, and chert.

Burke, J., Washoe County, Nevada.
Mercury ore, cinnabar.

Burns Mining Co., Cripple Creek, Colorado.
Gold ore, phonolite with fluorite and quartz.

Burrage, A. C., Santa Rita, New Mexico.
Cuprite crystals in talc.

Butte & Boston Mining Co., Butte, Montana.
Copper and silver ores, mattes, by-products, etc.

Button, W., Golconda, Nevada.
Copper ore.

Cagaloo Mining Company, Cagaloo Mine, Riverside County, California.—Tin from furnace.

Calaveras Consolidated Mining Company, Santa Cruz Mine, Calaveras County, California.—Azurite.

Calaveras Marble Company, Cave City, California.
Marble.

Caledonia Mining Company, Caledonia Mine, Fresno County, California.—Gold quartz.

California Marble & Building Stone Company, Colton, California.—Aragonite.

California Commission to Paris Exposition, San Fran-cisco, California.—Collective exhibit of ores and minerals.

CONTRIBUTORS:

Adams, W. J., Jr., Felix Mine, Azuzo, Los Angeles County.—Fluorite.

Aldrich, H. A., Glenbrook, Lake County.—Iron ore.

Amargosa Mining Co., Clark's Fork, Inyo Co.—Gypsum crystal.

Arents, A., Fresno Mine, Fresno Co.—Magnetite and limonite.

Auburn, Bank of, Auburn, Placer County.—Marble.

Bartlett, W. P., Livermore, Alameda Co.—Hydromagnesite.

Bartlett, W. T., Snowflake Mine, Napa County.—Magnesite.

Bonanza Mining Company, Tuolumne County.—Slate.

Brian, J. W., San Jacinto Quarry, San Diego Co.—Limestone.

Burke, Morris, Half Dollar Mine, San Diego Co.—Lepidolite.

Bush, Mrs. A. E., Fresno Co.—Andalusite and selenite.

Cactus Mining Company, Cactus Mine, Inyo Co.—Calcites.

Cain, J., Santa Rosa Island, Santa Barbara Co.—Gypsum crystal.

California Paris Exposition Com'n.—Mineral oils from different mines.

Calistoga Mining Co., Napa County.—Clay.
Carbondale Mining Co., Amador County.—Clay.
Cerro Gordo Co., Ygnacio Mine, Inyo County.—Caledonite.
Chalmers, Lewis, Alpine County.—Enargite.
Choynski, T. N., Folsom, Sacramento County.—Quartz.
Clark, L., Copper World Mine, San Bernardino Co.—Chrysocolla.
Coleman, W. T., Death Valley, San Bernardino Co.—Pandermite.
Copeland, W. J., Mt. Shasta Mine, Shasta Co.—Quartz crystals.
Copperopolis Mining Co., Calaveras Co.—Cuprite and malachite.
Coso Lime Co., Coso Mine, Inyo County.—Calcites.
Croissant, A. T., Lincoln, Placer County.—Clay.
Davis & Cowell, Davis Quarry, Santa Cruz Co.—Limestone.
Diadem Mining Co., Plumas Co.—Gold quartz.
Dickenson, T., Eureka Mine, Humboldt County.—Graphite.
Donnelly, J. W., Eber Flat, Tulare County.—Epidote.
Douglas, J., Douglasville, Tuolumne County.—Chalcedony.
Drew, W. F., Alta Mine, Placer County.—Cobaltite.
Dyer, Geo., Red Hill Mine, Mariposa Co.—Malachite, bornite.
Ellis, J., Ellis Ranch, Santa Clara County.—Limestone.
English, George L., Reed Ranch, Marion Co.—Lawsonite.
Fair, James G., Morgan Mine, Calaveras Co.—Aragonite.
Field, J. D., Limestone Quarry, Tulare County.—Limestone.
Finell, H. T., Willots, Mendocino Co.—Glaucophane.
Franconia, L., San Diego Mine, San Diego Co.—Chalcocite.
Frazer Bros., Riverside Quarry, Riverside Co.—Cement rock.
Frost, L. L., Hayden, Lassen Co.—Mesolite.
Gale, Mrs. S. A., Argus Mountain, Inyo Co.—Calcite.
Glenbrook Mining Co., Lake Co.—Micaceous hematite.
Goff, H. S., Arch Beach, Orange Co.—Fuchsite.
Goodrich, C. F., Del Norte Co.—Magnetite and limonite.
Grant Mining Co., Grant Gypsum Mine, Orange Co.—Dolomite.
Grower, H., Big Pine, Inyo Co.—Bismutite.
Goucher, J., Berkeley, Alameda Co.—Vivianite.
Hazard, Geo. W., Los Angeles Quarry, Los Angeles Co.—Limestone.
Hearn, Dr. F. G., Yreka, Siskiyou Co.—Arenaceous limestone.
Heffernan, H. K., Carga Muchacha, San Diego Co.—Cyanite.
Hendrickson, A., Hendrickson Quarry, Kern Co.—Limestone.
Heslewood, J. A., Tehama, Tehama Co.—Pectolite.
Hidalgo Mining Co., Inyo Co.—Argentiferous galena.
Hill, A., Hill's Quarry, Monterey Co.—Limestone.
Hill, M., Mammoth Mine, Mono Co.—Barite.
Hills, H. S., Vanderbilt, San Bernardino Co.—Feldspar.
Hirsh, D., Hirsh Mine, Inyo Co.—Silver ore.
Hixon, J. W., Bullion Mine, San Diego Co.—Chrysocolla and azurite.
Holmes, H. T., Co., Lynn's Quarry, San Bernardino Co.—Limestone.

Hooper, Edward, Reynolds Mine, Fresno Co.—Tantalite and columbite.
Hughes, D. F., South Fork Mine, Placer Co.—Calcites.
Hughes, H., Deer Creek, Tulare Co.—Moss agate.
Hullford, E. W., Placerville, El Dorado Co.—Quartz crystals, pyrite.
Ibex Mining Co., Inyo Co.—Silver ore.
Ireland W. J., Murphy's Cave, Calaveras Co.—Stalactites.
I. X. L. Mining Co., Alpine Co.—Silver ore.
Jerney, J. M., Green Mountain Mine, Fresno Co.—Molybdenite.
Jocoby, H., Jocoby Creek, Humboldt Co.—Limestone.
Jolon Mining Co., Monterey Co.—Clay.
Jones, D., Mount Raymond, Fresno Co.—Limestone.
Kahn, Charles, Cadmus Mine, Nevada Co.—Gold quartz.
Katz, M. D., Akar's Quarry, San Bernardino Co.—Limestone.
Keeney, G. D., Soledad Canyon, Los Angeles Co.—Zeolite.
Kelsey, P. F., Kelsey Mine, Los Angeles Co.—Erythrite.
Kennedy Mining Co., Kennedy Mine, Amador Co.—Foot wall, 1,250 to 1,600 foot level.
Keystone Mining Co., Keystone Mine, Amador Co.—Foot wall.
Kimble, Geo. W., Colomo Mine, El Dorado Co.—Magnetite, limonite.
King, M., Yolo Mine, Yolo Co.—Limonite.
Knight, George, Pit River, Modoc Co.—Calcite.
Knox, R. F., Manhattan Quicksilver Mine, Napa Co.—Chalcedony.
Marble Lime Kiln Co., Swartout Canyon, San Bernardino Co.—Limestone.
Mason, W. B., Crescent City Beach, Del Norte Co.—Beach pebbles.
Mason, W. Q., Bald Point, Calaveras Co.—Almandite (garnet).
Mathyas, B., Buckmountain Creek, Humboldt Co.—Lignite.
Maxwell, J., Turquoise Mine, San Bernardino Co.—Turquoise, cuproscheelite.
Maxwell, James M., New Idria Mine, Fresno Co.—Cinnabar.
Mayer, H. H., Lake Mine, Lake Co.—Hyalite.
McGowan, F., Eureka, Humboldt Co.—Rutile (in granite).
McMillan, F., Shasta Co.—Limonite, melanterite.
Mendenhall, A., Mendenhall Mine, Alameda Co.—Chromic iron ore.
Mercer, W. J., Mercer's Cave, Murphys, Calaveras Co.—Stalactite.
Merriman, Dr. A. F., Big Lagoon Beach, Humboldt Co.—Beach pebbles.
Moore, N., Moore's Ranch, Santa Barbara Co.—Limestone.
Mt. Shasta Mining Co., Mt. Shasta.—Gold quartz, $300 per ton.
Nellis, J. W., Mount Diablo, Contra Costa Co.—Barite.
Nelson, J., Nelson Creek, Monterey Co.—Jasper (variegated).
Nichols, Geo., Calaveras Cave, Calaveras Co.—Stalactite.
Ogden, A., Union Mine, Calaveras Co.—Chalcopyrite, from 500 foot level.

O'Gorman, J. T., Callaghan's Ranch, Siskiyou Co.—Barite.
Parker, D. W. C., Modoc Mine, Inyo Co.—Anglesite.
Payne, P., St. Helena, Napa Co., California.—Chrysolite (in serpentine).
Perry, Mrs. J. W. S., Calico.—Celestite, thenardite.
Pope, O. C., Chico Mine, Placer Co.—Millerite.
Porrie, M., Porrie's Quarry, Kern Co.—Limestone.
Powers, H., Mayflower Mine, Nevada Co.—Molybdenite.
Pritchard, J. A., Wyoming Mine, Inyo Co.—Quartz crystal.
Randol, J. B., New Almaden Mine, Santa Clara Co.—Calcite.
Redfern, J. M., Barstow, San Bernardino Co.—Pyrolusite (calcite).
Rich Gulch Mining Co., Plumas Co.—Gold quartz (rich).
Rockland Lime Quarry Co., Monterey Co.—Limestone, calcites.
Root, Wm. C., Mountain Meadow, Tuolumne Co.—Copper ore.
Sanders, Edward, Delta, Shasta Co.—Molybdenite in granite.
San Francisco Mining Co., Mariposa Co.—Gold quartz (with pyrite).
Santa Barbara Mining Co., Santa Barbara Co.—Ochre (burnt).
Satellite Mining Co., Inyo Co.—Copper ore.
Sem, Sam, Stuckslager Mine, El Dorado Co.—Roscoelite.
Sheldon, E. F., Jamestown, Tuolumne Co.—Albite.
Sheppard, L., Sheppard's Canyon, Inyo Co.—Iron ore.
Shimmin, E. R., Willets, Mendocino Co.—Garnets.
Sickler, H. O., Julian Quarry, San Diego Co.—Limestone.
Silver, Lowry, Copper World Mine, San Bernardino Co.—Chrysocolla.
Smith, A., Three River Quarry, Tulare Co.—Limestone.
Smith, B. W., Specimen Mine, Kern Co.—Calcites.
Smith, E.,Carpenter's Ranch, San Luis Obispo Co.—Limestone.
Smith, O. A., San Bernardino Co.—Calcites (Iceland spar, pyrite).
Sprague, George E., Mount Hoffman, Mariposa Co.—Epidote.
Stewart, Charles, Tehachapi Summit, Kern Co.—Semi opal.
Stone, G F., Forest Hill Divide, Placer Co.—Serpentine.
Suhren, George H., Suisun, Solano Co.—Agate.
Thayer, B. B., Guadalupe Quicksilver Mine, Santa Clara Co.—Dolomite.
Theisen, John, Consumers' Mine, El Dorado Co.—Rubescite.
Thomas, W. P., Thomas Mine, Mendocino Co.—Lignite.
Thorn, J. N., Lost Mine, San Diego Co.—Copper ore.
Tregidgo, Al., Hudson Bay Mine, Nevada Co.—Gold quartz (rich).
Tres Pinos Lime Co., San Benito Co.—Limestone, magnetite.
Turnbow, F. H., Stuckslager Mine, El Dorado Co.—Roscoelite.
Turner, O., Turner's Quarry, San Diego Co.—Limestone.
Union Mining Co., Calaveras Co.—Chalcopyrite.
Ward, W. E., Enterprise Mine, Plumas Co.—Chalcocite.
Williams, J., Kennet Quarry, Shasta County.—Limestone.
Woodworth, J. W., Rose Mine, San Bernardino Co.—Hematite (auriferous).
Yates, L. G., Santa Barbara Co.—Pectolite.

California Paris Commission, San Francisco, California.
Models, gold quartz mill, mine timbering, underground mining. hydraulic sluicing, nuggets and dust.

California Quicksilver Mining Company, Yolo County, California.—Quicksilver ore.

California State Mining Bureau, San Francisco, California.—Reports and colored charts on mineral production of the state.

Calliope Mining & Milling Company, Ouray, Colorado.
Silver lead ore.

Calumet & Contact Company, Contact, Nevada.
Copper matte.

Calumet & Hecla Company, Calumet, Michigan.
Native copper, copper ores.

Campbell, C. P., Boomerang Mine, San Bernardino County, California.—Gold quartz.

Campbell, L. H., Gaffney, South Carolina.
Monazite sand.

Campion, John F., Leadville, Colorado.
Native gold, crystallized and leaf, from Breckenridge and Leadville collection; valued at $35,000.

Capital City Brick Company, Topeka, Kansas.
Shale, for manufacture of paving and vitrified brick.

Carborundum Company, Niagara Falls, New York.
Carborundum crystals.

Carpenter & Brother, Kings Mountain, North Carolina.
Tin ore.

Carpenter, A. V., Contact, Nevada.
Copper ore.

Carpenter, Coles A., Sea Cliff, New York.
Stoneware clay, for the manufacture of stoneware, etc.

Carrara Marble Company, Carrara Marble Quarry, Amador County, California—Marble.

Carthage Marble & White Lime Company, St. Louis, Missouri.—Limestone.

Casarallo, J., Garibaldi Mine, Mono County, California.
Argentiferous galena.

Cashin, William J., Cashin, Colorado.
Copper ore.

Castrer, Curran & Bullitt, Philadelphia, Pennsylvania.
Coal collection of the Pocahontas Mines, Western Virginia.

Cayuga Pressed Brick Company, Cayuga, Indiana.
Clay for making brick, accompanied by bricklet.

Centennial Eureka Mining Company, Eureka, Utah.
Gold, silver, and copper, with rare arsenical minerals associated.

Centerville Block Coal Company, Centerville, Iowa.
Bituminous coal.

Central Coal & Coke Company, Kansas City, Missouri.
Bituminous coal, coke.

Central Jellico Coal Company, Pleasant View, Kentucky.—Bituminous coal.

Central Lead Company, Flat River, Missouri.
Lead ore, galena.

Central Phosphate Company, Beaufort, South Carolina.
Phosphate rock.

Central Railroad of New Jersey, New York City.
Anthracite coal.

Cerrillos Coal & Railroad Company, Cerrillos, New Mexico.—Bituminous coal.

Cerro Gordo Company, Ygnacio Mine, Inyo County, California.—Linarite.

Chadbourn & Long, Old Mines, Washington County, Missouri.—Lead ore, galena, and barytes.

Chainman Mining Company, White Pine County, Nevada.—Gold ore.

Chapman Coal Company, Jackson, Ohio.
Bituminous coal.

Champion Company, Iron Beacon, Michigan.
Iron ore, weighing 1,600 pounds.

Chapel Hill Mining Company, Cherokee County, North Carolina.—Iron ore.

Chapin, W. C., Furnace Creek, California.
Ulexite and gypsum.

Chase, Captain George W., Rush, Arkansas.
Zinc ore, sphalerite with smithsonite.

Chatelle, W. B., Galena, Kansas.
Zinc ore, crystallized sphalerite.

Chauvin, A. T., Chauvin, California.
Gold quartz.

Cherokee & Pittsburg Coal Company, Pittsburg, Kansas.
Bituminous coal.

Cherry Valley Iron Company, Leetonia, Ohio.
Bituminous coal.

Chestatee Pyrites Company, Lumpkin County, Georgia.
Iron pyrite.

Chiatovich, J., Tule Canon, Nevada.
Silver lead, horn silver and iron ore.

Chiatowitch, John, Beveridge Mine, Inyo County, California.—Gold quartz.

Chicago University, Chicago.
Collection of minerals included in Group III of Dana's Classification, collected by J. P. Iddings.

Chicago, Wilmington & Vermillion Coal Company, Braidwood, Illinois.—Bituminous coal.

Chickamauga Coal & Coke Company, Chickamauga, Georgia.—Bituminous coal, coke.

Chisler, G., Jumbo, Nevada.
Gold and silver.

Choctaw, Oklahoma & Gulf Railway Company, Hartshorn, Indian Territory.—Bituminous coal.

Christy Fire Clay Company, The, St. Louis, Missouri.
Fire clay, for manufacture of fire brick, tiles, etc.

Cincinnati Belle Mining Company, Cincinnati Belle Mine, San Diego County, California.—Gold quartz (rich).

Cinnabar King Mining Company, Healdsburg, Sonoma County, California.—Mercury ore, cinnabar.

City Improvement Company, San Francisco, California. Bituminous rock and asphaltum.

Clarke, F. G., Blue Stone Company, Oxford, New York. Bluestone.

Clark, N., & Son, Carbondale Mine, Amador County, California.—Clay (fire).

Clark, W. A., Gallup, New Mexico. Bituminous coal.

Clerk de Landresse, H., Yosemite Queen Mine, Fresno County, California.—Silver ore.

Cleveland Cliffs Mining Company, Ishpeming, Michi- gan.—Iron ore from Cleveland Cliffs Mine.

Cleveland Mining Company, Cleveland Mine, San Diego County, California.—Gold quartz.

Cleveland Stone Company, Cleveland, Ohio. Sandstone.

Clinton Mining & Milling Company, Crisman, Colorado. Gold ore with the association of roscoelite.

Clippert & Spaulding, Lansing, Michigan. Clay, for manufacture of brick, accompanied by bricklet.

Coal Bluff Mining Company, Terre Haute, Indiana. Bituminous coal.

Coal Creek Coal Company, Knoxville, Tennessee. Bituminous coal.

Coal Ridge Coal & Coke Company, Pomeroy, Ohio. Bituminous coal, coke.

Cock Robin Mining Company, Joplin, Missouri. Zinc and lead ore, sphalerite, and galena.

Colcord, R. K., Vivian Mine, Nevada. Gold and silver ore.

Collins, R. M., Lewis, California. Soapstone (fire brick).

Colman, N. J., Hilton Mine, Mariposa County, California.—Gold quartz, from 900 foot level.

Colorado Central Mining Company, Georgetown, Colorado.—Silver and lead ore.

Colorado College, Colorado Springs, Colorado.
Minerals in the sulphide, selenide, telluride, arsenide, and antimonide group, by R. M. Bagg, Jr.

Colorado Fuel & Iron Company, Denver, Colorado.
Coal, coke; representing thirty iron and coal mines and coking plants operated in Wyoming, Colorado, and New Mexico.

Colorado Scientific Society, Denver, Colorado.
Free gold ore from the Smuggler Union Mine, Telluride, Colorado; valued at $600. Value per ton, $86,000.

Colorado Smelting & Mining Co., Butte, Montana.
Copper and silver ores, mattes, by-products, etc.

Columbia Marble Quarry Company, Columbia Marble Quarries, Tuolumne County, California.—Marble.

Columbia Mining Company, Marion, Kentucky.
Lead ore, galena, and fluor spar.

Columbian Marble Quarrying Company, Rutland, Vermont.—Square column of La Joya marble in facade.

Columbian Mining Company, Silverton, Colorado.
Silver copper ore.

Columbus & Hocking Coal & Iron Company, Columbus, Ohio.—Bituminous coal.

Comet Coal Company, Dayton, Ohio.
Bituminous coal.

Commodore Mining Company, Creede, Colorado.
Silver ore.

Commonwealth Mining & Milling Co., Pearce, Arizona.
Gold and silver ore, with free gold and cerargyrite.

Compere, C. V., Washington Mine, Calaveras County, California.—Gold quartz.

Concrete Gold Mining Company, Gilpin County, Colorado.—Gold and silver ore.

Cone, H., Blackman Mine, Nevada County, California.
Gold quartz.

Congress Gold Co., Congress Mine, Congress, Arizona.
Gold ore.

Conn, Fred., Saline Valley, California.
Tincal (native borax).

Conrad Hill Mining Company, Davidson County, North Carolina.—Copper ore.

Conroy, B., Redding, California.
Limonite (botryoidal).

Consolidated Bituminous Rock Company, Santa Cruz County, California.—Bituminous rock.

Consolidated Coal Company, Baltimore, Maryland.
Bituminous coal.

Consolidated Coal Company, St. Louis, Missouri.
Bituminous coal.

Consolidated Stanley Mining Co., Idaho Springs, Colorado.—Gold, silver, and copper ore.

Consolidated Virginia Mining Company, Virginia City, Nevada.—Sulphurets.

Continental Coal Company, Mayersdale, Pennsylvania.
Bituminous coal.

Contracting Company, Clear Creek Station, California.
Sandstone.

Cook, S. E., Buffalo City, Arkansas.
Zinc blende with smithsonite, dolomite, and magnesian limestone, from Alberta Mine, Marion County.

Cook Mining & Milling Company, Central City, Colorado.—Gold ore.

Cooper Hollow Mining Company, Galena, Kansas.
Zinc ore, breccia of sphalerite and chert.

Copperopolis Mine, Castle Creek, Arizona.
Gold and copper ore.

Copper Queen Consolidated Mining Co., Bisbee, Arizona.—Copper ores, showing malachite, azurite, cuprite, and chrysocolla.

Copper Union Creek Company, Copper Union Creek, California.—Copper ore.

Cornell University, Ithaca, New York.
Minerals of Groups III, IV, VII and VIII, Dana's Classification, collected by A. C. Gill.

Cornelly, J. B., Tombstone Mine, Inyo County, California.—Gold quartz.

Cornetti, G. B., Tombstone Mine, Inyo County, California.—Gold quartz.

Cornwall Mining Company, Galena, Kansas.
Lead ore cerussite.

Corona Coal & Coke Company, Corona, Alabama.
Bituminous coal, coke.

Corrigan, McKinney & Company, Cleveland, Ohio.
Iron ores.

Cowles, Calvin J., Wilkesboro, North Carolina.
Potter's clay, for manufacture of earthenware, etc.

Craig, John J., Company, Knoxville, Tennessee.
Marble.

Crowell, J. P., Alta Antimony Mine, San Benito County, California.—Stibnite.

Crown King Mining Company, Yavapai County, Arizona.—Gold ore.

Cruikshank, A. B., Mary Ellen Mine, Tuolumne County, California.—Gold quartz.

Crown Point Mining Company, Comstock, Nevada.
Sulphurets.

Cumnock Mining Company, Cumnock, North Carolina.
Bituminous coal.

Curtis, J. G., Pentz, California.
Chromic iron ore, limestone.

Curtis, S. W., Sonoma, California.
Clay.

Cutter, W. H., Woodbridge, New Jersey.
Potter's clay, for manufacture of earthenware, etc.

Daggett, A., San Bernardino County, California.
Silver ore, chalcopyrite, calamine, and smithsonite.

Daggett, J., Juniper Mine, Lassen County, California.
Gold quartz (with free gold).

Damon Mining Company, Cripple Creek, Colorado.
Gold ore, phonolite, fluorite, and quartz.

Danche, J., Boss, Nevada.
Lead and silver ore.

Danville Brick & Tile Company, Danville, Illinois.
Clay, for making brick, accompanied by bricklet.

Daunet, J., Death Valley, California.
Borate of lime.

Davidson & Kennedy, Lottie Mine, Inyo County, California.—Cervantite (oxide antimony).

Davidson, G. A., Utica Mine, Ward, Colorado.
Chalcopyrite and bornite, carrying gold.

Davis, J. Z., Sacramento, California.
Collection of minerals.

Day, Dr. David T., Washington, D. C.
Transparencies showing scenes in mining regions.

Deaken & Taylor, Old Spanish Mine, Shasta County, California.—Gold quartz, $75.00 per ton.

Deaken, F., Evening Star Mine, Shasta County, California.—Gold quartz, $800.00 per ton.

de Corse, S., Marble Canyon Mine, near Yuma, Arizona.
Marble.

Deep Creek Mining Company, Lander County, Nevada.
Antimony.

DeGoha, J. W., Grass Valley, California.
Clay.

Deidesheimer, P., Young America Mine, Sierra County, California.—Gold quartz.

Deitrick, T. M., Lorraine, Virginia.
Potter's clay, for manufacture of earthenware, etc.

De la Mar's Mining Company, Mercur, Utah.
Exhibit of the methods of working gold ores.

Delano Mining Company, Delano Mine, Tulare County, California.—Silver ore.

Delaware & Hudson Company, New York.
Anthracite coal.

Delaware & Lackawanna Railroad Company, New York.
Anthracite coal.

Dennemora Mining Company, Brown's Summit, North Carolina.—Iron ore.

Denver Marble & Onyx Company, Denver, Colorado.
Marble.

Dern, John, Mercur, Utah.
Gold ore, showing cinnabar.

Derby, C. C., Mirabel Mine, Lake County, California.
Cinnabar, stibnite from San Benito County, and epsomite from Santa Clara County.

Deseret Museum, The, Salt Lake City, Utah.
Selenite crystals.

Detroit & Deadwood Company, Deadwood, South Da- kota.—Native copper.

Detroit Copper Mining Co., Morenci, Arizona.
Copper ores, cuprite, chalcotrichite, arborescent and bright native copper, azurite.

Detroit Mining Company, Joplin, Missouri.
Zinc ore, sphalerite from "soft ground."

Devine, J. E., Volcano Wells Mine, near Yuma, Arizona.
Alum.

Devling, Charles, Boulder, Colorado.
Silver ore.

Dewdrop Mining & Milling Company, Ni Wot Mine, Ward, Colorado.—Gold ore, iron and copper ore.

Dew Drop Mining Company, Oronogo, Missouri.
Zinc ore, breccia of sphalerite, chert, and limestone.

Dickey, W. S., Manufacturing Company, Deepwater, Missouri.—Fire clays, for making fire brick, tiles, etc.

Dickinson Fire Brick Works, Dickinson, North Dakota.
Fire clays, for making fire brick, tiles, etc.

Dier, George, Draper Mine, Tuolumne County, California.—Gold quartz.

Dixie Mining & Smelting Company, Dixie Mine, St. George, Utah.—Copper and iron ores.

Doe Run Mining Company, Flat River, Missouri.
Lead ores, galena, diamond drill cores showing structure of the deposit.

Dooley, W. P., Lincoln County, Nevada.
Copper ore.

Doolittle, J., Providence Mine, Tuolumne County, California.—Gold quartz with pyrite.

Doran, A. J., Accidental Mine, Arizona.
Gold, silver, and lead ore.

Dorick Mining Company, Georgetown, Colorado.
Gold and lead ore.

Dorset Mountain Marble Company, Rutland, Vermont.
Marble.

Douglass, W., Silver Star Mine, Nevada.
Gold ore.

Drake Company, St. Paul, Minnesota.
Petrified wood, found near Holbrook, Arizona, cut for ornamental purposes, table tops; granite, quartzite.

Dresser, S. R., Bradford, Penn.
Packers for oil and gas wells; couplings for threadless pipe; insulation to prevent electrolysis of pipes; clamps for stopping leaks at couplings.

Ducktown Mining Company, Ducktown, Tennessee.
Copper ore.

Dunlap Mining Company, Flat Creek, Washington County, Missouri.—Lead ore, galena.

Dunn, L. F., Humboldt County, Nevada.
Silver ore.

Durkee, J. H., Coal Company, Weir, Kansas.
Bituminous coal.

Dutton, A. J., Ouray, Colorado.
Gold, silver and copper ore, showing the mineral tetrahedrite.

Dwight Mining Company, Galena, Kansas.
Zinc ore, sphalerite on chert.

Dwight, Prof. William B., Vassar College, Poughkeepsie, New York.—Petrotome in operation.

Eads, Mixter & Heald Zinc Company, Mossy Creek, Tenn.—Zinc ore, sphalerite, smithsonite, calamine.

Eagle Mining Company, Loudon County, Virginia.
Iron ore.

Eagle Mining Company, Salem, Kentucky.
Lead and zinc ores, galena, sphalerite, and fluorite.

Edgar, C. S., Metuchen, New Jersey.
Ball clay, accompanied by example in bricklet form.

Edwards, A. W., Mark Twain Mine, Lynx Creek, Arizona.—Gold and silver ore.

Edwards, M. A., Campo Seco, California.
Granite.

Eggers & Company, Eagle Mine, Nevada.
Gold ore.

Eggers & Hunter, New Orleans Mine, Nevada.
Copper ore.

Eicher, J. C., Morning Star Mine, Butte County, California.—Barite with gold and silver.

Ekman, A., Butte County, California.
Gypsum, calcite with sulphides.

Eleventh Hour Mining Company, Prosperity, Missouri.
Zinc ore, sphalerite.

Elkton Mining Company, Cripple Creek, Colorado.
Collection of gold ore and accompanying minerals.

Elsinore Coal & Clay Company, Elsinore, California.
Bituminous coal.

Empire Iron & Steel Company, New York City.
Iron ore from New Jersey and Virginia mines.

Empire Mining Company, Empire Mine, Nevada County, California.—Gold quartz, from 1,500 foot level.

Empire Mining Company, Lynx Creek, Arizona.
Gold, silver, and copper ore.

Empire State Mining & Milling Company, Wardner, Idaho.—Set of concentrates.

Engels, H. A., Engels' Mine, Plumas County, California.
Copper, malachite, chrysocolla, cuprite, chalcopyrite.

English, R. W., Lumber Company, English, Colorado.
Lime rock of good quality.

Ensign, O. A., Hoodlum Mine, Castle Creek, Arizona.
Copper ore.

Enterprise Mining Company, Rico, Colorado.
Gold and silver ore.

Erie Railroad Company, New York City.
Anthracite coal.

Esperanza Mining Company, Esperanza Mine, Calaveras County, California.—Azurite.

Etta Mining Company, Etta, Arizona.
Gold quartz ore.

Etta Mining Company, Keystone, South Dakota.
Spodumene, for manufacture of porcelain and medicines.

Eureka Consolidated Mining Company, Eureka, Ne-vada.—Lead and silver ore.

Eureka Hill Mining Co., Tintic District, Utah.
Gold, silver, and copper ore, conichalcite and enargite.

Eureka Mining Company, Eureka Mine, Plumas County, California.—Gold quartz (sulphides of iron and lead).

Eureka Slate Company, Eureka Slate Mine, El Dorado County, California.—Slate.

Evans, L., Pardee Mine, Lake County, California.
Chromic iron ore.

Evans Marble Company, Baltimore, Maryland.
Marble from Tennessee.

Ewing, Thomas, San Bernardino County, California.
Silver ore, from Bonanza King and Bell McGillivray Mines.

Excelsior Brownstone Company, Ashland, Wisconsin.
Sandstone.

Excelsior Fire Brick Company, Ottawa, Illinois.
Clay, for making brick, accompanied by bricklet.

Excelsior Slate Company, Delta, Pennsylvania.
Slate.

Exploration Syndicate, The, New York City.
Bituminous coal.

Fair Haven Marble & Marbleized Slate Company, Fair Haven, Vermont.—Slate.

Fairhurst, G. W., Magnolia, Colorado.
Gold ore, showing cleavage face of tellurium.

Fairmont Coal & Iron Company, New Bethlehem, Pennsylvania.—Bituminous coal.

Fairmount Consolidated Mining Company, Garfield, Nevada.—Black metal.

Fall Brook Coal Company, Corning, New York.
Bituminous coal.

Falling Rock Cannel Coal Company, New York City.
Bituminous coal.

Faxon, John T., Sonora, California.
Soapstone.

Ferguson Mining Company, York County, South Carolina.—Gold ore.

Field Columbian Museum, Chicago.
Crystals of the United States illustrating crystallography.

First National Kansas Mining Company, Gilpin County, Colorado.—Gold, silver, and lead ore.

Fish, A., Golden Wreath Mine, Inyo County, California.
Gold quartz.

Fisk Mining & Milling Company, Blackhawk, Gilpin County, Colorado.—Gold, silver, and copper ore.

Fitch, A. B., Graphite Mine and Smelting Works, Magdalena, New Mexico.—Carbonate sands containing lead and silver.

Flemington Coal & Coke Company, Flemington, West Virginia.—Bituminous coal, coke.

Florentine Marble Company, Beldens, Vermont. Marble.

Fluor Spar Company, The, St. Louis, Missouri. Fluor spar.

Flynt, W. N., Granite Company, Monson, Massachusetts. Granite.

Foley, James, Allisonia, Virginia. Zinc and lead ore, steel-blende, smithsonite, galena, and cerusite.

Foote Mineral Company, 1317 Arch St., Philadelphia, Pennsylvania.—Collective exhibit of minerals occurring in the United States.

Forney Mining Company, North Carolina. Iron ore.

Fort Madison & Appanoose Stone Company, Fort Madi- son, Iowa.—Dolomite.

Fossich, F. L., Company, Sheffield, Alabama. Limestone.

Foster, W. E., Blazing Star Mines, Calaveras County, California.—Gold quartz.

Francis Mining Company, Francis Mine, San Bernar- dino County, California.—Gold quartz.

Frank, J. W., Red Cap Mine, Humboldt County, Cali- fornia.—Native copper.

Franklin, Nelson, Wood Mine, Central City, Colorado. Uranium ore, pitch blende.

Free Coinage Mining Company, Cripple Creek, Colorado. Gold ore, porphyry and quartz, basalt, fluorite.

Freedley, J. K. & Sons, Philadelphia, Pennsylvania. Marble.

Freeland Mining Company, Idaho Springs, Colorado.
Gold, silver, copper, and lead ore.

Freeport Granite Quarries, Freeport, Maine.
Granite.

Fremont Marble Company, Hartford, Connecticut.
Marble.

French, J. W., Washington Mine, Shasta County, California.—Gold quartz (telluride).

French, T. J., Blue Jacket Mine, Seven Devils Mountains, Idaho.—Copper ore.

Fresno Enterprise Company, Enterprise Mine, Fresno County, California.—Gold quartz.

Fricke, John H., Hillsboro, Sierra County, New Mexico.
Pyritic iron and zinc ore.

Frick, H. C., Coke Co., Pittsburg, Pennsylvania.
Maps and charts, diagrams, and photographs of equipment. Coke collection.

Friedigh, J. H., Hillsboro, Sierra County, New Mexico.
Gold ore.

Frost, J. S., Kentucky Mine, Mono County, California.
Chloride of silver.

Fuller, L. H., Chicago.
Lead ore, galena, from Dodgeville, Wisconsin.

Fultonham Brick Company, Fultonham, Ohio.
Shale, for manufacture of paving and vitrified brick.

Galena Queen Mining Company, Silverton, Colorado.
Silver and lead ore.

Gallup, H. H., Buffalo City, Arkansas.
Zinc ore blende from Lion Hill Mines, Marion County, Arkansas.

Gambetter Mining Company, Gambetter, California.
Gold quartz.

Gambetta Mining Company, Gambetta Mine, San Bernardino County, California.—Silver ore.

Gardner, Dr., Bedford, Indiana.
Kaolin, for manufacture of earthenware, etc.

Gardner, J. I., Wren, Arizona.
Gold quartz.

Garrison, J. F., New Year Mine, Deep Creek, Utah.
Copper ore.

Gauley Mountain Coal Company, Amsted, West Virginia.—Bituminous coal.

Geddes & Seerie Stone Company, Denver, Colorado.
Granite.

Gee Whillekins Mining Company, Granby, Missouri.
Zinc and lead ore, calamine and galena.

Gehrmann, Charles, Stanley Mine, Idaho Springs, Colorado.—Gold, silver, and copper ore, showing bornite and chalcopyrite.

Genesee Salt Company, Piffard, New York.
Salt.

Genesee Valley Mining Company, Plumas County, California.—Copper ore.

Genessee-Vanderbilt Mining Company, Guston, Coloorado.—Ore from Yankee Girl Mine.

Geological Survey, Illinois State, Springfield, Illinois.
Reports on geology of Illinois.

Geological Survey, Indiana State.
Reports, etc., on geology of Indiana.

Geological Survey, Iowa State, Des Moines, Iowa.
Geological photographs and measurements. Reports.

Geological Survey, Kansas State, Lawrence, Kansas.
Reports upon geology, mining, metallurgy, and mineralogy.

Geological Survey, Kentucky State, Lexington, Kentucky.—Reports upon geology, mining, metallurgy, and mineralogy.

Geological Survey, Maryland State.
Geological reports, etc.

Geological Survey, Michigan State, Lansing, Michigan.
Reports on geology, mining, metallurgy, and mineralogy.

Geological Survey, New Jersey.
Reports and maps of geological formations.

Geological Survey, New York State, F. J. H. Merrill, Director.—Reports on salt, gypsum, clay, road materials, and mineral resources.

Geological Survey, North Carolina State, Chapel Hill, North Carolina.—Reports on geology, mining, metallurgy and mineralogy.

Geological Survey, U. S. A., Washington, D. C.
Reports on geology, mining, metallurgy and mineralogy. Educational series of rocks.

Geological Survey, West Virginia, Morgantown, West Virginia.—Reports on geology, mining, metallurgy, and mineralogy.

George, D. S. G., Tulare County, California.
Semi-opal soapstone.

Georgia Marble Company, Tate, Georgia.
Marble.

Get There Mining Company, Prosperity, Missouri.
Zinc and lead ore, sphalerite, galena, chert, and greenockite.

Gettys, L. A., Shelby, North Carolina.
Monazite sand.

Gilbert, Charles, Carterville, Missouri.
Zinc ore, crystallized sphalerite.

Gilberts, A. J., Zem Zem, California.
Onyx.

Gilbreth Seam Face Granite Company, Boston, Massa- chusetts.—Granite.

Gilfillan Flagstone Company, Fort Scott, Kansas.
Flagstone.

Gillen Stone Company, Velp, Wisconsin.
Oil-bearing sandstone.

Gillis, Jim, Hackass Hill Mine, Tuolumne County, Cali- fornia.—Gold quartz, rich in silver.

Gilmore, J. T., Deadwood, South Dakota.
Silver lead ore.

Girard, L. N., Castella, California.
Clay.

Gladding, McBean & Company, Lincoln, California.
Clay, for making brick, accompanied by bricklet.

Glasgow Western Exploration Company, Golconda, Nevada.—Copper ore.

Gold Coin Company, Hidden Treasure Mine, Gilpin County, Colorado.—Gold and silver ore.

Gold Coin Company, Indiana Mine, Gilpin County, Colorado.—Gold, silver, and lead ore.

Golden Gate Mining Company, Golden Gate Mine, Tuolumne County, California.—Gold quartz.

Golden Mines Company, Alabama Mine, Mariposa County, California.—Gold quartz.

Golden Wedge Mine, Clear Creek County, Colorado.
Silver and copper ore.

Gold King Mining & Milling Company, Silverton, Colorado.—Gold and silver ore.

Gold King Mining Company, Cripple Creek, Colorado.
Gold ore, phonolite and quartz, $140 per ton; fluorite and quartz.

Goodenough Mining Company, Carterville, Missouri.
Lead and galena.

Gopher Gold Mining Company, McCabe, Arizona.
Gold ore.

Gorman Mining Company, Nevadaville, Colorado.
Uranium ore.

Goss, John L., Stonington, Maine.
Granite.

Gouverneur Marble Company, Gouverneur, New York.
Marble.

Grafton Quarry Company, St. Louis, Missouri.
Dolomite.

Granby Mining & Smelting Company, Granby, Missouri.
Lead and zinc ores, galena, and sphalerite.

Grand Central Mining Company, Mammoth, Utah.
Gold and silver ore, showing free gold and cerargyrite.

Grandelmeyer, J., Good Luck Mine, Nevada.
Lead and silver, copper and tungsten ore.

Grand Prize Mining Company, Tuscarora, Nevada.
Stephanite and ruby silver.

Graphic Mines & Smelting Works, The, Magdalena, New Mexico.—Lead ores and fluxes necessary to smelt successfully all ore from this mine.

Gray, George D., Empire Mine, Sierra County, California.—Gold quartz.

Great Eastern Quicksilver Mining Company, Guerneville, Sonoma County, California.—Mercury ore, cinnabar.

Great Falls Fire Brick Company, Great Falls, Montana.
Flint clays.

Great Western Quicksilver Mining Company; offices, San Francisco, California.—Mercury ore, cinnabar.

Green, G., Padre Mine, Los Angeles County, California.
Gold quartz.

Green Mountain Mining Company, Green Mountain Mine, Plumas County, California.—Gold quartz.

Gregg, S. G., Snows Canon, Nevada.
Bromide of silver.

Gregory & Company, Carson River, Nevada.
Copper ore.

Grier, T. J., Lead, South Dakota.
Gold quartz taken from each level of the Homestake Mine.

Griffith, D., Griffith Quarry, Placer County, California.
Granite.

Griswold, M., White Mountain Mine, Mono County, California.—Melanterite.

Grizzly Bear Mining Company, Ouray, Colorado.
Silver ore.

Groezinger, W., Esmeralda County, Nevada.
Coal.

Guilfoyle, P., Poorman, Nevada.
Lead and silver ore.

Gunnell Mining Company, Central City, Colorado.
Gold ore.

Gurley Investment Company, Montrose County, Colorado.—Copper ore.

Gwin Development Company, Gwin Spring Mine, Calaveras County, California.—Gold quartz.

Haile Mining Company, Lancaster County, South Carolina.—Gold concentrates.

Haines, J. M., Boise, Idaho.
Copper ore.

Hall, F. S., Ojai Valley, California.
Gypsum.

Hall, J. R., Cherokee Mine, Tuolumne County, California.—Gold quartz (rich).

Halstead Brothers, Plumas County, California.
Gold quartz (rich).

Hanchet, L., Lamartine Mine, Idaho Springs, Colorado.
Gold, silver, and lead ore.

Hancock Mining Company, Silverton, Colorado.
Silver and lead ore.

Hanks, Mrs. W., Contact, Nevada.
Copper ore.

Hardwicke, James K., Madison County, North Carolina.
Kaolin, for manufacture of earthenware, etc.

Harmon & McIlroy, Carterville, Missouri.
Zinc ore, sphalerite with chert.

Harris Clay Company, Dillsboro, North Carolina.
Kaolin, for manufacture of earthenware, etc.

Hart, J. W., Crystal Mine, Shasta County, California.
Gold quartz.

Hart, R. G., California Quicksilver Mine, Yolo County, California.—Quicksilver ore.

Hartke, John J., Elkridge, Maryland.
Clays, for the manufacture of brick, accompanied by bricklet.

Hartley, H. H., Excelsior Mine, Meadow Lake, California.—Gold quartz.

Hartman, C. T., Birmingham, Alabama.
Clay, for the manufacture of brick, accompanied by bricklet.

Hatch Hill Bed Slate Works, Whitehall, New York.
Slate.

Hatch, R. S., Tacna Mine, near Yuma, Arizona.
Mica.

Hathenbruck, F. W. C., Provo City, Utah.
Slate.

Havens, H. B., & Company, Lone Star Mine, Calaveras County, California.—Gold quartz.

Hawkins, E. M., Denver, Colorado.
Publication: The Mining World.

Hayes Brothers, Ashland, Wisconsin.
Iron ore from Ashland Mines.

Heald, E. P., Nevada City Mine, Nevada County, California.—Gold quartz.

Heikes, Victor C., Boulder, Colorado.
Gold ore, showing crystals of gold on sphalerite.

Heim, Fred., Nasby, South Dakota.
Silver lead ore.

Heims, Thomas C., & Company, Osceola Mills, Pennsylvania.—Bituminous coal.

Henly, George, Henly, California.
Sandstone.

Henrich, Carl, Flat River, Missouri.
Cobalt and nickel ores, with their associated rocks.

Henry, C., Mining Company, Empire City, Kansas.
Zinc ore, sphalerite.

Hessleton, B. C., Petaluma, California.
Melanterite.

Hetzel, David B., Newton, New Jersey.
Slate.

Heydenfeldt, S., Coso Mine, Inyo County, California.
Silver ore; also partzite from Mono County, and clay from Amador County.

Hickey, D., Ormsby, Nevada.
Copper ore.

Hidden Treasure Mining Company, Gilpin County, Colorado.—Gold, silver, and lead ore.

Hill, J. T., Black Oak Mine, Tuolumne County, California.—Gold quartz.

Hislop, T. George, Western Florida.
Ball clay, accompanied by example in bricklet form.

Hogan, J., Ophir, Nevada.
Lead and silver ore.

Holmes Mining Company, Candelaria, Nevada.
Chloride of silver ore.

Holy Terror Mining Company, Keystone, South Dakota.
Gold ore.

Home Mining Company, Star Shaft, Leadville, Colorado.
Silver lead ore of the typical gray lead sand carbonate showing cerargyrite, assaying 1,000 oz. silver and 25 per cent lead.

Home-Riverside Coal Company, Leavenworth, Kansas.
Bituminous coal.

Homestake Mining Company, Lead, South Dakota.
Series of ore specimens from the 200 to 800 foot levels. Photographs.

Horsfal Mining & Milling Company, Gold Hill, Colorado.—Gold and silver ore.

Houghton, S. C., Pioneer Hydraulic Mine, Sierra County, California.—Gold in cement.

Hovey, William, Griffith Mine, Clear Creek County, Colorado.—Silver, lead, and copper ore.

Hoyt, Howard, Hoyt's Granite Quarry, Placer County, California.—Granite.

Hudson & Chester Granite Company, Chester, Massachusetts.—Granite.

Hunt & Alexander, Royal Rock Mine, San Bernardino County, California.—Gold quartz.

Huntington, W. W., Gilman, Eagle County, Colorado.
Gold ore and gray lead sand carbonates.

Husband, W., Gopher Boulder Mine, Placerville, California.—Gold quartz.

Hyde, Henry C., Poule Mine, Placer County, California.
Gold quartz.

Hydraulic Press Brick Company, St. Louis, Missouri.
Fire clay, for manufacture of fire brick, tiles, etc.

Hymer, J. P., Copper Hill Mine, Nahant, South Dakota.
Copper ore.

Ibex Mining Company, Leadville, Colorado.
Gold, silver, and copper ore, and iron oxide carrying values in gold and silver.

Idaho Mining Company, Idaho Mine, Nevada County, California.—Gold quartz.

I. D. Company, Carson, Nevada.
Soda crystals.

Illinois Steel Company, Chicago.
Iron ores.

Independence Mining Company, Cripple Creek, Colorado.—Gold telluride ore.

Indiana Coal Company, Blairsville, Pennsylvania.
Bituminous coal.

Indiana Paving Brick Company, Brazil, Indiana.
Shale, for manufacture of paving and vitrified brick.

Ingalls Zinc Company, Newmarket, Tennessee.
Zinc ore and concentrates.

Ingersoll-Sergeant Drill Company, New York City.
Rock drills and gas compressors, track and bar channelers, coal cutters, air receivers, and inter and after coolers.

Integral Mining Company, Integral Mine, Trinity County, California.—Quicksilver ore.

Inter-State Coal & Coke Company, Baltimore, Maryland.
Bituminous coal, coke.

Inyo Development Company, Inyo County, California.
Silver ore, soda, borate of lime and magnesia.

Iowa Brick Company, Des Moines, Iowa.
Clay, for the manufacture of brick, accompanied by bricklet.

Iowa Consolidated Mining Company, Central City, Missouri.—Disseminated zinc ore, lead ore, breccia of sphalerite and chert.

Iowa Gold Mining & Milling Company, Silverton, Colorado.—Gold, lead, and silver ore.

Iron Age Publishing Co., New York City.
Publications relative to the iron industry, charts.

Iron Hill Mining Company, Carbonate, South Dakota.
Lead ore.

Iron Silver Mining Company, Moyer Shaft, Leadville, Colorado.—Silver and zinc ore, showing different types of ore for concentration.

Irvine, J., San Joaquin Ranch, Orange County, California.—Gypsum (alabaster).

Isabella Mining Company, Cripple Creek, Colorado.
Gold ore, fluorite, and oxydized quartz, from 500 and 1,000 foot levels, assaying $400 and $20,000 per ton.

Ivanhoe Mining Company, Gilpin County, Colorado.
Gold, silver, and lead ore.

Jackson, G. A., Sulphur Bank, California.
Sulphur.

Jackson's New Jersey Brownstone Quarry, Haledon, New Jersey.—Brownstone.

Jeffrey Manufacturing Co., Columbus, Ohio.
Coal mining machinery, electric generators, mine locomotives, conveyors, crushers, and drills.

Jeffs, L. A., Rockland, Michigan.
Crystallized copper.

Jenkins, W. W., San Feliciano Placers, California.
Gold quartz (rich).

Jocinte Mining Company, Humboldt County, Nevada.
Copper ore.

Jones, Edward, Sulphur Creek, California.
Aragonite.

Jones, J. F., Blacksburg, South Carolina.
Iron ore, baryta.

Johnson, N., Kern Mine, Kern County, California.
Clay (Fuller's earth).

Johnston, J. A., Johnston's Mine, San Bernardino County, California.—Silver ore.

Judd, E. G., Columbia, Nevada.
Silver ore.

Juniper Mining Company, Juniper Mine, Mariposa County, California.—Gold quartz.

Justice Mining Company, Gold Hill, Nevada.
Gold and silver ore.

Kaolin Company, The, Sharon, Connecticut.
Kaolin, for manufacture of earthenware, etc.

Kahl, Charles, Cadmus Mine, Nevada County, Cali-fornia.—Gold quartz, with pyrite.

Kanaka Mining Company, Kanaka Mine, Sierra County, California.—Gold quartz.

Kelley, W., Lyon County, Nevada.
Copper ore.

Kemmerer Coal Company, Kemmerer, Wyoming.
Bituminous coal.

Kendall Mount Gold & Silver Mining Company, Silver-ton, Colorado.—Gold and silver ore.

Kennedy, David, Centennial Mine, Georgetown, Colo-rado.—Gold, silver, and copper ore.

Kennedy Mining Company, Imperial, Nevada.
Gold ore.

Kennedy Mining Company, Kennedy Mine, Amador County, California.—Gold quartz.

Kennedy Milling & Mining Co., Jackson, Amador County, California.—Mine timbering, showing method of timbering California mines.

Kentucky Bluestone Company, Freestone, Kentucky. Sandstone.

Kentucky Construction Company, Mayfield, Kentucky. Ball clay, accompanied by example in bricklet form.

Kentucky Fluor Spar Company, Crittenden County, Kentucky.—Fluor spar, crude and ground.

Kesseler Brothers, San Francisco, California. Onyx and aragonite.

Keystone Gold Mining Company, Keystone, South Dakota.—Gold ore.

Keystone Marble Company, Annville, Pennsylvania. Marble.

Keystone Quarries, Pacolet, South Carolina. Granite.

Kicking Horse Mining Company, Black Tail Gulch, Deadwood, South Dakota.—Gold ore.

King, Dr. J. C. E., Salt Lake City, Utah. Copper ore from St. George.

King Mining Company, The, King of Arizona Mine, near Yuma, Arizona.—Gold ore.

Kirk, W. H., Welcome, Nevada. Plumbago.

Kirtley Tunnel Company, Georgetown, Colorado. Sliver and lead ore.

Kline, J., Esmeralda, Nevada. Black metal.

Klondike Mining Company, Aurora, Missouri. Zinc ores, sphalerite and calamine.

Knapp, S. A., Mountain King, Nevada. Lead and silver ore.

Knight, Jesse, Humbug Mine, Eureka, Utah.
Silver and gold ore, and sand carbonate of lead.

Knight, John W., Connolton Mines, Ward, Colorado.
Tungsten ore.

Knight, Wilbur C., Laramie, Wyoming.
Collection of Wyoming ores.

Kunz, George Frederick, 11-15 Union Square, New York.
Original publications.

Lackawanna Iron & Steel Company, Scranton, Pennsylvania—Iron ore from Tilly Foster Mine.

Ladd & Clement, Hard Tack Mine, Trinity County, California.—Gold quartz.

Lake, H. W., Daggett, California.
Iron ore.

Lake Superior Consolidated Iron Mines, Duluth, Minnesota.—Iron ores.

Lamartine Mining Company, Idaho Springs, Colorado.
Gold, silver, and lead ore.

Larson, A., Euchre Bar Mine, Placer County, California.
Gold quartz.

La Sal Copper Mining Company, Cashin, Colorado.
Copper ore; 1,000 tons shipped netted $83,000.

La Sal Mining Company, Red Chief Mine, Paradox Valley, Colorado.—Silver and copper ore.

Last Dollar Mining Company, Cripple Creek, Colorado.
Gold ore, phonolite, and oxydized quartz.

Laswell, J. W., Laswell's Mine, San Bernardino County, California.—Silver ore.

La Tosca Mining Company, Oronogo, Missouri.
Zinc ore, sphalerite.

Lawler & Wills, Hillside, Arizona.
Gold ore.

Lawrence, W. J., Salt Lake City, Utah.
Silver and copper ore.

Lee, T., Cactus Mine, Inyo County, California.
Argentiferous galena.

LeGrand Quarry Company, Marshalltown, Iowa.
Limestone.

Lehigh Coal Mining Company, Dickinson, North Dakota.—Bituminous coal.

Lemoine, William, Porcupine Mine, Mono County, California.—Gold quartz.

Lemmon, H. A., Ormsby County, Nevada.
Lead and silver ore, baryta.

Leonard, P. H., Denver, Colorado.
Publication: Ores and metals; devoted to mining.

Leopold, Nathan F., 102 Dearborn Street, Chicago.
Copper ores, massive and crystallized, from the Michigan Mines.

Lepper, G., Ormsby County, Nevada.
Infusorial earth.

Leschinske, Robert, Minerva Mine, Inyo County, California.—Cerusite.

Levy, H. M., Mono County, California.
Silver ore, partzite (oxide antimony).

Lexington Coal Mining Company, St. Louis, Missouri.
Bituminous coal.

Lilienthal, A., Tuolumne Mine, Tuolumne County, California.—Rich gold quartz.

Lincoln Granite Company, Lincoln Quarry, Placer County, California.—Granite.

Lindsay, W. E., Douglas County, Nevada.
Antimony.

Linton, W. D., Wadsworth, Nevada.
Volcanic ash.

Lippincott, J. B., Co., Philadelphia, Pennsylvania.
Publications on minerals, chemistry, engineering, etc.

Listie Mining Company, Somerset, Pennsylvania.
Bituminous coal.

Little John Mining Company, Silverton, Colorado.
Silver lead ore.

Little, W. P., Chico Mine, Shasta County, California.
Silver ore.

Livingston Gold Mining Company, The, Sugar Loaf,
Boulder County, Colorado.—Gold ore, showing rusty gold.

Llewellyn, H. H., Hillsboro, Sierra County, New Mexico.
Lead ore.

Logan, H. R., Ormsby County, Nevada.
Copper ore.

Lone Pine Mining Company, Big Bug District, Arizona.
Gold, silver, and copper ore.

Long Dale Mining Company, Long Dale, Virginia.
Iron ore from Long Dale Mine.

Long, J., Elko County, Nevada.
Coal.

Long Valley Coal Company, Towanda, Pennsylvania.
Bituminous coal.

Los Angeles Granite & Brownstone Company, Sespa,
California.—Sandstone.

Lost Lillie Mining Company, Cripple Creek, Colorado.
Gold ore, phonolite, and galena.

Lott, C. T., Philbrook, California.
Gold, silver, and lead ore.

Lovelocks, G., Churchill County, Nevada.
Nickel and cobalt, marble.

Lowe, T. H., Cottonwood, Nevada.
Basalt.

Lowe, Henry P., Denver, Colorado.
Free gold ore from the Topeka Mine, Gilpin County, Colorado; value of specimen, $1,800; value per ton, $28,000.

Lower Mammoth Mining Company, Tintic District,
Utah.—Gold and arsenical copper ore, with enargite.

Low Moor Iron Company, Low Moor, Virginia.
Iron ore from Low Moor Mine.

Luce, W. D., Castle Dome Mine, near Yuma, Arizona.
Fluor spar.

Lucky Guss Mining Company, Cripple Creek, Colorado.
Gold ore, showing tellurium, fluorite, and quartz, the characteristic phonolite ore of the Cripple Creek district.

Lukens, T. P., Los Angeles County, California.
Soapstone from Santa Catalina Islands.

Lyons, S. C., & Brothers, Bennington, Vermont.
Ball clay, accompanied by example in bricklet form.

McAlester Coal & Mining Company, Wilburton, Indian
Territory.—Bituminous coal.

McBride, James N., Cashin, Colorado.
Copper ore from vein 14 feet wide.

McCarty, J., Gold Reef Mine, Inyo County, California.
Gold quartz.

McCoy, James H., Jackson County, North Carolina.
Kaolin, for manufacture of earthenware, etc.

McDonough, T., Inyo County, California.
Gold quartz.

McGeoghegan, J., Consumers Copper Mine, Amador
County, California.—Copper ore.

McGill Mining Company, J. F. Jones, Blacksburg, South
Carolina.—Gold and iron ore.

McKinley Mining Company, Carterville, Missouri.
Lead ore, galena on chert.

McLane, George B., Cincinnati, Ohio.
Lead ore and fluor spar, crude and ground.

McLean, John R., Washington, D. C.
Lead ore, sandstone, limestone, fluorite, etc.

McMahon, Porter & Company, New Cumberland, West
Virginia.—Fire clay, for manufacture of fire brick, tiles, etc.

Mabee, George W., National Mine, Gilpin County, Colo-
rado.—Gold ore.

Mahoning Iron & Steel Company, Hibbing, Minnesota.
Iron ore from Mahoning Mine.

Maine and New Hampshire Granite Company, Portland, Maine.—Granite.

Maine Red Granite Company, Red Beach, Maine.
Granite.

Malones Mining Company, Malones Mine, Tuolumne County, California.—Gold quartz.

Mammoth Mining & Milling Company, Mammoth Mine, Mammoth, Utah.—Gold and copper ore.

Mandle, I., St. Louis, Missouri.
Kaolin and ball clay.

Manhattan Mining Company, Austin, Nevada.
Gold and silver ore, ruby silver ore.

Mann, T. R., Logan Mine, Crisman, Colorado.
Gold ore, showing free gold and roscoelite.

Marion Improvement Company, Demming, North Carolina.—Monazite sand.

Marion Mining Company, Galena, Nevada.
Silver and lead ore.

Martha Washington Mining Company, Silver City, Utah.—Silver ore.

Martine, C. H., McClellan Mine, Georgetown, Colorado.
Silver ore, showing mineral polybasite.

Maryland Coal Company, Lonaconing, Maryland.
Bituminous coal.

Mary McKinney Mining Company, Cripple Creek, Colo- rado.—Gold telluride ore, showing tellurium, fluorite, and quartz. Assays from $200 to $1,000 gold per ton.

Massachusetts Institute of Technology, Boston, Massa- chusetts.—Minerals of the oxygen salts of Dana's Classification. Collected by W. O. Crosby.

Mathews, H. H., Boston, Massachusetts.
Slate from Vermont and New York.

Maxwell Land Grant Company, Raton, New Mexico.
Gold in nuggets and dust.

Mayer, L. W., Mount Cliff, California.
Clay.

Mayhugh, J. S., Elko County, Nevada.
Copper ore.

Mead, William, Hillsboro, Sierra County, New Mexico.
Lead ore.

Melvina Mining Company, Salina, Colorado.
Telluride ore.

Menomonee Hydraulic Press Brick Company, Menomonee, Wisconsin.—Clay, for making brick.

Merriam, Dr. A. F., Rabbit Creek, California.
Model of gold nugget, value $614.00.

Metich, J., Cave City Mine, Calaveras County, California.—Gold quartz.

Michigan Mining Company, Bay City, Michigan.
Bituminous coal.

Michigan School of Mines, Houghton, Michigan.
Collection of native elements, occurring in the United States; collected by H. T. Mercer.

Midas Gold Mining & Milling Co., Deep Creek, Utah.
Gold and silver ore.

Migman, Berryman & Ford, Ward, Colorado.
Gold ore, iron pyrite.

Milford Pink Granite Company, Boston, Massachusetts.
Granite.

Mill Creek Coal & Coke Company, Coopers, West Virginia.—Bituminous coal, coke.

Millner, J., Indian Queen Mine, Nevada.
Lead and silver ore.

Milwaukee Cement Company, Milwaukee, Wisconsin.
Cement.

Mine Hill Quarry Company, Roxbury Station, Connecticut.—Granite.

Mine Hill Mining Company, Burnsville, North Carolina.
Chromic iron.

Mine la Motte Mining Company, Mine la Motte, Missouri.—Lead and nickel ores and furnace products. This mine has been worked continuously for 200 years.

Minnesota Iron Company, Soudan, Minnesota.
Iron ores.

Minnesota Mining Company, 19 Congress Street, Boston, Massachusetts.—Native copper.

Minnesota Sandstone Company, Minneapolis, Minnesota.—Sandstone.

Mirabel Standard Mining Company, Mirabel Mine, Lake County, California.—Quicksilver ore.

Missouri Granite Company, St. Louis, Missouri.
Granite.

Mitchell, Charles, Howard Hill, California.
Scheelite.

Mittallbury Coal & Coke Company, Mittallbury, West Virginia.—Bituminous coal, coke.

Modesti & Avila, Colorado Mine, Yuma County, Arizona.
Galena.

Mollie Gibson Consolidated Mining Company, Aspen, Colorado.—Native silver; largest mass ever mined; value, $3,000.

Monongahela River Consolidated Coal & Coke Company, Pittsburg, Pennsylvania.—Bituminous coal, coke.

Monson Maine Slate Company, Boston, Massachusetts.
Slate.

Montana Coal & Coke Company, Fairmont, West Virginia.—Bituminous coal, coke.

Montana Coal & Coke Company, Horr, Montana.
Bituminous coal, coke.

Monte Cristo Mining Company, Galena, Kansas.
Zinc ore, greenockite on smithsonite.

Moonshine Mining Company, Granby, Missouri.
Zinc ore, crystallized calamine, smithsonite, and sphalerite.

Morgan, D. W. C., Star Light Mine, El Dorado County, California.—Gold quartz.

Morgan Milling Company, Carson City, Nevada.
Copper sulphate.

Morning Star Mining Company, Ward, Colorado.
Gold ore.

Morning Star Mining Company, Morning Star Mine,
Alpine County, California.—Silver ore (enargite).

Morrell, J. A., Cedarberg Mine, El Dorado County, California.—Gold quartz.

Morrisdale Coal Company, Philadelphia, Pennsylvania.
Bituminous coal.

Morrison, E. A., Petersburg, Virginia.
Fire clay, for manufacture of fire brick, tiles, etc.

Morris Run Coal Company, Corning, New York.
Bituminous coal.

Morse, H., Victorine District, Nevada.
Gold and silver ore.

Moss, Jerome, Grover, North Carolina.
Clay, for manufacture of brick, accompanied by bricklet.

Mountain Copper Company, Shasta County, California.
Refiners' products, copper matte and moss, copper bar, copper ore.

Mountaineer Mining Company, Mountaineer Mine,
Nevada County, California.—Gold quartz.

Mount Airy Granite Quarries, Mount Airy, North Carolina.—Granite.

Mount Carbon Coal Company, Powellton, West Virginia.
Bituminous coal.

Mountford, Elijah, South Amboy, New Jersey.
Ball clay, accompanied by example in bricklet form.

Mount Copper Company, Lost Confidence Mine, Shasta
County, California.—Limonite.

Mount Diablo Mining Company, Mount Diablo, Nevada.
Black metal.

Mount Hope Mine, Humbug, Arizona.
Gold, silver, and lead ore.

Mouse River Lignite Coal Company, Burlington, North Dakota.—Bituminous coal.

Moyer, J. S., & Company, Bethlehem, Pennsylvania.
Straight and curved slates.

Murdock, William A., Norwegian Mine, Tuolumne County, California.—Gold quartz (rich).

Murphy, Arthur, Marguerite Mine, Milford, Utah.
Copper ore.

Murphy, F. M., Castle Creek, Arizona.
Manganese ore.

Muscovite Mica Company, Auditorium Building, Chicago.—Fine quality of mica from Idaho.

Myles Salt Company, New Orleans, Louisiana.
Salt.

National Bank of Commerce, Seattle, Washington.
Gold nuggets.

National Lead Company, St. Louis, Missouri.
Lead ore, galena.

National Nickel Company, Churchill, Nevada.
Nickel and cobalt; also annabergite and nicolite from Table Mountain.

National Steel Company, Chicago.
Iron ore from Champion Mine.

Neff, J. H., Penryn, California.
Granite.

Neidy, J., Aurora, Nevada.
Gold ore, obsidian.

Neodesha Mining Company, Ouray, Colorado.
Silver ore, showing stephanite.

Nesbit, J. S., Spring Valley Mine, Butte County, California.—Gold quartz.

Nettie Mining Company, Griffith Mine, Georgetown, Colorado.—Silver and lead ore.

Nevada & Boston Company, Lyon County, Nevada.
Copper ore.

Nevada Commission to Paris Exposition, Carson City, Nevada.—Collective exhibit of Nevada minerals.

CONTRIBUTORS:

Aluminium Lustre Co., Esmeralda Co.—Diatomaceous earth.
Eagle Mining Company, Eagle Mine.—Gold ore.
Fish, G., Ida Mine.—Silver ore.
Hadley, T. J., Arizona Mine.—Silver and gold ore.
Hilp, S., Joanna Mine.—Gold ore.
Hogan, J. W., Wall Street Mine.—Copper ore.
Ingalls, W., Esmeralda County.—Coal.
Keystone Mining Company, Keystone Mine.—Gold ore.
Lang, J., Elko County.—Coal.
Murphy & Eggers, Bullion Mine.—Copper and silver ore.
Roberts, G., Pine Mountain.—Lead ore.
Roberts, S. P., Black Jack.—Gold and silver ore.

Nevada, State of.
Collection of minerals representing the resources of the state, collected by J. A. Yerington, H. B. Maxson, and W. J. Dooley.

New Almaden Quicksilver Mining Company, New Almaden, California.—Glass model of mine; wood model self-closing door. Iron floating on quicksilver.

Newcomb, B. M., Napa Consolidated Mine, Napa County, California.—Quicksilver ore.

New Dunderberg Mining Company, Silver Plume, Colorado.—Silver and lead ore.

New England Brown Stone Company, Cromwell, Connecticut.—Brownstone.

New England Gas & Coke Company, The, Everett, Massachusetts.—Bituminous coal, coke.

Newhouse & Weir, Dragon Mine, Silver City, Utah.
Gold and silver ore.

New Idria Quicksilver Mining Company, Tres Pinos, San Benito County, California.—Mercury ore, cinnabar.

New Jersey Zinc Company, Franklin Furnace, New Jersey.—Zinc ore, manganese, millemite, franklinite.

New Sapphire Syndicate, Great Falls, Montana.
Oriental sapphires, in the rough.

New Salt & Borax Company, Rhodes, Nevada.
Borax, borate of lime.

Newsboy Mining Company, Ouray, Colorado.
Silver lead ore.

Newton, H. A., Hanover Mine, Fresno County, California.—Gold quartz.

New York & Rosendale Cement Company, Ulster County, New York.—Light cement rock.

New York State Museum, Albany, New York.
Geological reports.

Niagara Mining Company, Niagara Mine, Trinity County, California.—Gold quartz.

Nichols, H. W., Chicago.
Zinc ores from Arkansas; zinc and lead ores from Wisconsin.

Nisi Prius Mining Company, Leadville, Colorado.
Hard carbonate lead ore.

Nix, C. H., Ouray, Colorado.
Silver lead ore, assaying 1,000 oz. silver to the ton.

Nixon, G., Winnemucca, Nevada.
Refined sulphur.

Noble, William, Eureka Mine, San Diego County, California.—Gold quartz (assays $2,000 per ton).

Noon, A. A., Eureka, Utah.
Kaolin.

Norcross Brothers, Boston, Massachusetts.
Marble, granite, and sandstone.

North Bloomfield Gravel Company, San Francisco, California.—Model of the largest gold bar ever cast, representing one month's run.

North Carolina Board of Agriculture, Raleigh, North Carolina.—Gold nuggets.

CONTRIBUTORS:

Bunnell Mountain Mine, Montgomery County.
Caldwell County.
Dry Hollow Mine, Montgomery County.
Eldorado Township, Montgomery County.
Gold Hill Mine, Rowan County.
Miller Mine, Rowan County.
Montgomery County—various placer mines.

Nugget Mine, Cabarrus County.
Parker Mine, Stanley County.
Ramslen Mine, Gaston County.
Redding Mine, Moore County.
Smitherman Mine, Montgomery County.

North Carolina Paris Commission, Raleigh, North Carolina.—Collection of ores, representing the mineral wealth of North Carolina.

CONTRIBUTORS:

Aiken, E. A., Brevard.—Auriferous sulphides.
Aldrich, M., Washington, District of Columbia.—Auriferous limonite.
Aldrich Mining Co., Salisbury.—Free milling gold ore.
American Mills Mining Co., Mecklenburg County.—Chalcopyrite.
American Mining Co., Cabarrus County.—Chalcopyrite.
Ames, M., Charlotte.—Auriferous pyrite.
Anderson Mining Co., Salisbury.—Auriferous sulphides.
Ballow & Gentry, Jefferson, Ashe County.—Magnetite (manganiferous).
Bates, J. G., Franklin.—Hematite.
Bessemer Mining Co., Bessemer City.—Limonite.
Blue Wing Mining Co., Granville County.—Bornite, copper, malachite.
Bost, Charles, Cabarrus County.—Auriferous sulphides.
Bost, Martin, Cabarrus County.—Auriferous sulphides.
Boyleston Gold Mining Co., Henderson County.—Free milling ore.
Brimley, H. H., Raleigh, Ashe County.—Magnetite.
Bruner, T. K., Raleigh, Gaston County.—Magnetite.
Buckley, W. F., Rowan County.—Auriferous sulphides.
Campbell, J. C., Moore County.—Azurite and malachite.
Carson, J. H., Charlotte.—Auriferous sulphides.
Cheek Mining Co., Chatham County.—Bornite with malachite.
Childers, William, Grimley's.—Limonite.
Clayton Bros., Davidson County.—Auriferous pyrite, limonite.
Clegg Mining Co., Chatham County.—Chalcopyrite, azurite, malachite.
Counder, Eli, Indian Trail.—Auriferous sulphides and carbonates.
Cowie Creek Mining Co., Macon County.—Argentiferous pyrite, galenite.
Cranberry Iron & Coal Co., Cranberry, Mitchell County.—Magnetite.
Crowell, M. E., Indian Trail.—Auriferous sulphides.
Deaton, J. M., Swinton.—Free milling gold ore.
Deep River Mining Co., Greensboro.—Auriferous sulphides.
Dixon Mining Co., Yadkin County.—Malachite, chalcopyrite.
Dortch, H. P., Junior, Raleigh.—Hematite.
Douglass, M., Dunn.—Hematite (manganiferous).

Dunn's Mountain Mining Co., Salisbury.—Auriferous sulphides.
Eames, R., Junior, Ashe County.—Malachite, bornite, chalcopyrite, copper.
Fagg, M., Danbury, Stokes County.—Magnetite.
Finch, J. W., & Co., Davidson County.—Argentiferous sulphides.
Fuller, Dr. A., Jones.—Free milling gold ore
Furr, Dr. S., Cabarrus County.—Auriferous sulphurets.
Gillis Mining Co., Person County.—Chalcocite, malachite, bornite.
Goggins, George, Eldorado.—Free milling gold ore.
Graham, W. A., Lincoln County.—Auriferous sulphides.
Graybeal, Joseph, Jefferson.—Magnetite.
Greensboro Iron & Steel Co., Greensboro.—Hematite.
Griffin, J. W., Monroe.—Auriferous limonite.
Gullowhee Mining Co., Jackson County.—Malachite in limonite.
Hanks Iron Property, Murphy.—Limonite.
Hanna, George B., Charlotte.—Auriferous sulphides.
Harris, J. F., Thomasville.—Auriferous sulphides.
Hauser, Henry, Lincolnton.—Pyrolusite.
Hedrick, M. L., Davidson County.—Auriferous sulphides.
Hoke, General R. F., Raleigh.—Hematite (martite schist).
Holmes, J. A., Chapel Hill.—Chromite.
Honeycut, D. W., Gold Hill.—Placer alluvial dirt.
Hoover Hill Company, Ltd., Randolph County.—Free milling gold ore.
Isenhour, George W., Gold Hill.—Free milling ore.
Jones, Milton, Eldorado.—Free gold in sulphides and slate.
Justice, John, Plumtree.—Red hematite.
Kesler, J. W., Garfield.—Free milling gold ore.
Kluttz & Peck, Cabarrus County.—Malachite in slate.
Lawton, Charles L., Bessemer City.—Magnetite.
Lewis, J. L. V., Brooklyn, New York.—Auriferous sulphides.
Link-Benedict Mining Co., Iron Station.—Magnetite.
McDowell, Manly, Morganton.—Limonite.
McMackin Mining Co., Salisbury.—Auriferous pyritic slate.
Mann, Charles G., High Point.—Gold bearing gravel.
Miller, C. A., Eli.—Auriferous sulphides.
Mills, J. C., Burke County.—Auriferous gravel.
Monroe, J. L., Swinton.—Free milling gold ore.
Morse Mining Co., Murphy.—Limonite.
Muffley, J. R., Eldorado.—Auriferous sulphides.
Newman, J. J., Rowan County.—Auriferous copper ore.
Newman, W. G., Salisbury.—Auriferous sulphides in slate.
North Carolina Agricultural Dept., Wilkes County.—Silver ore.
North Carolina Steel & Iron Co., Greensboro.—Limonite.
Nussman Mining Co., Cabarrus County.—Auriferous chalcopyrite.
Oddy, Thomas, Salisbury.—Auriferous sulphides.
Palmer, Robert, Guildford County.—Auriferous sulphides.

Parrott & Armstrong, King's Mountain, Gaston County.—Magnetite.
Parton, George, Burningtown.—Limonite (manganiferous).
Patterson, S. L., Raleigh.—Psilomelane.
Perkins Mining Co., Caldwell County.—Auriferous sulphides, limonite.
Peters, J. F., Davidson County.—Auriferous sulphides.
Pharr Mining Co., Cabarrus County.—Chalcopyrite.
Phoenix Mining Co., Cabarrus County.—Auriferous pyrite.
Pitcher, Captain A., Charlotte.—Auriferous sulphides.
Plummer, J. R., & Co., Jones.—Auriferous sulphides.
Pratt, J. H., Chapel Hill.—Chromite.
Randleman, J. L., Salisbury.—Auriferous sulphides.
Ray, G. D., Burnsville.—Chromite.
Reed Mining Co., Cabarrus County.—Chalcopyrite and malachite.
Redding, Dr. A. H., Cedar Falls.—Free milling ore.
Reynolds, J. R. & A. S., Winston, Forsyth County.—Magnetite.
Rives, Miss Lucy, Raleigh.—Magnetite.
Roan Mountain Iron & Steel Co., Bakersville.—Specular hematite.
Rogers, M., Danbury.—Magnetite.
Russell Gold Mining Co., Glenbrook.—Free milling gold ore.
Russell, Nelson, Eldorado.—Free milling gold ore.
Sanders, Tobe, Eldorado.—Free milling gold ore.
Seacrest, L. M., Indian Trail.—Auriferous sulphides.
Shipletts Mining Co., Shipletts.—Auriferous sulphides.
Silver Mining Co., Davidson County.—Argentiferous sulphides.
Smart Mining Co., Union County.—Argentiferous galena.
Smith, A. W. S., Charlotte.—Auriferous sulphides.
Smith, H. M., Cabarrus County.—Auriferous copper ore.
Southern Belle Mining Co., Salisbury.—Auriferous limonite.
Stanley Freehold Mining Co., Stanley County.—Free gold in quartz.
Stanley, Isaac, Guildford County.—Chalcopyrite and pyrite.
Tarbell, S. H., Indian Trail.—Auriferous sulphides.
Thayer, N. M., Eldorado.—Free milling and sulphide ore.
Theis, M., Concord.—Free milling gold ore.
Thing, C. C., Indian Trail.—Auriferous sulphides.
Tierman, Mrs. J. M., Rowan County.—Argentiferous galena.
Tomlinson, Dr. J. M., Rosedale.—Auriferous sulphides.
Toneotta Iron Co., Murphy.—Limonite.
Troutman Mining Co., Rowan County.—Argentiferous sulphides.
Union Mining Co., Cabarrus County.—Chalcopyrite, malachite, limonite.
Valleytown Mining Co., Murphy.—Limonite.
Viele, C. G., Rowan County.—Auriferous sulphides.
Warren, S. J., Charlotte.—Auriferous pyrite.
Welborn Mining Co., Davidson County.—Argentiferous galena, pyrite.

West Prussian Mining Co., Davidson County.—Silver ores, sulphides.
Widenhouse Mining Co., Cabarrus County.—Free milling ores.
Wilcox, W. C., Carthage.—Free milling gold ore.
Wilkes, John, Mecklenburg County.—Auriferous sulphides.
Wilkins, J., & Co., Davidson County.—Auriferous sulphides.
Williams, Mrs. W., Gold Knob.—Auriferous sulphides.
Wilson Mining Co., Wilson's Mills.—Limonite.
Yoke, A. J., Weldon.—Auriferous limonite.
Yountz, J. L., Indian Trail.—Auriferous galenite.

North Carolina State Museum, Raleigh, North Carolina.
Collection of unpolished gems.

North Empire Mining Company, Empire City, Kansas.
Lead ore, crystals of galena.

Northern Coal Company, Denver, Colorado.
Bituminous coal.

Northern Michigan Marble Company, Foster City, Michigan.—Marble.

Northern Pacific Coal Company, Tacoma, Washington.
Bituminous coal.

North Monson Maine Slate Company, Worcester, Massachusetts.—Slate.

North Star Mining Company, North Star Mine, Shasta County, California.—Gold quartz.

North Star Mining Company, Silverton, Colorado.
Gold and silver ore.

Norton, C. S., Blue Stone Company, Bedford, Indiana.
Limestone.

Notla Consolidated Marble, Iron & Talc Company, Kinsey, North Carolina.—Marble.

Oakes Mining Company, Cove Spring, Kansas.
Zinc and lead ore, sphalerite, and galena.

Oak Hill Mining Company, Chatham County, North Carolina.—Iron ore.

O'Connor, Con., Rockland, California.
Granite.

Ohio Fire Brick Company, Oak Hill, Ohio.
Flint clays.

Oil Well Supply Company, Pittsburg, Pennsylvania.
Oil well machinery in operation; tools and supplies.

Old Dominion Copper Company, Baltimore, Maryland.
Mines at Globe, Arizona.—Copper pseudomorph after cuprite.

Old Dominion Mining Company, Coville, Washington.
Silver ore, with cerargyrite and bromyrite.

Old Jordon & Galena Mining Company, Bingham, Utah.
Gold and copper ore.

Oleta Marble Company, Oleta Marble Quarry, Amador
County, California.—Marble.

Oliver, Dave, Bonanza Mine, Tuolumne County, Cali-
fornia.—Hessite and free gold.

Oliver Iron Mining Company, Milwaukee, Wisconsin.
Iron ores.

Omaha & Grant Smelting Company, Smuggler Mine,
Aspen, Colorado.—Lead and silver ore.

Ontario & Western Railway Company, New York City.
Anthracite coal.

Ontario Silver Mining Company, Ontario Mine, Park
City, Utah.—Silver and lead ores. This mine has paid $40,000,000 in dividends.

Ophir Mining Company, Comstock, Nevada.
Sulphurets.

Oregon Coal & Navigation Company, San Francisco,
California.—Bituminous coal.

Oregon Improvement Company, Seattle, Washington.
Bituminous coal.

Ore Knob Mining Company, Gold Hill, North Carolina.
Copper ore.

Oro Bella Mining Company, Oro Bella, Arizona.
Gold ore.

Orton, Edward, Junior, Columbus, Ohio.
Publications on geology.

Osborne, Seager & Company, Cleveland, Ohio.
Bituminous coal.

Oskaloosa Coal Company, Oskaloosa, Iowa.
Bituminous coal.

Overland Mining & Milling Company, Sunshine, Utah.
Gold ore, with orpiment and cinnabar.

Ozark Mining Company, Galena, Kansas.
Lead ore, galena, and chert.

Pacific Coast Borax Company, Mojave Desert, California.
Borax.

Pacific Coast Borax Company, San Francisco, California.
Borax, crude and prepared.

Pacific Copper Company, Esmeralda County, Nevada.
Copper ore.

Pahannes, Captain Isaac, Royal Sulphur Mine, near Yuma, Arizona.—Sulphur and alum.

Parfet, G. W., Golden, Colorado.
Clay, for manufacture of stoneware, etc.

Parke County Coal Company, Rosedale, Indiana.
Bituminous coal.

Parks, S. F., Amador, California.
Marble.

Parrett, J., Bonanza Mine, Mono County, California.
Gold quartz.

Parrot Silver & Copper Company, Butte, Montana.
Copper and silver ores, mattes, by-products, etc.

Parry, E. L., & Sons, Manti, Utah.
Sandstone and limestone.

Parry, R., Washoe County, Nevada.
Copper ore.

Patterson, C. W., Lyon County, Nevada.
Copper ore.

Patton Coal Company, Patton, Pennsylvania.
Bituminous coal.

Pearce, Richard, Manager, Boston & Colorado Smelting and Refining Co., Denver, Colorado.—Ores treated at the Argo Smelter, Argo, Colorado.

Pelican Dives Mining Company, Georgetown, Colorado.
Silver and lead ore.

Penn Mining Company, Favorite Mine, Lynx Creek, Arizona.—Gold, silver, and lead ore.

Pennsylvania Coal Company, New York City.
Anthracite coal.

Pennsylvania Railroad Company, Philadelphia, Pennsylvania.—Anthracite coal.

Penrod, E., Elko County, Nevada.
Gold ore.

Penrose Home Mining Company, Leadville, Colorado.
Lead and silver ore.

Penrose, R. A. F., Pearce, Arizona.
Silver, showing cerargyrite.

Perfumo, P. B., Perfumo Ranch, San Luis Obispo County, California.—Limonite.

Perkins Company, The, New York City.
Bituminous coal.

Perry, Mathews & Buskirk, Bedford, Indiana.
Limestone.

Perth Amboy Terra Cotta Company, Perth Amboy, New Jersey.—Clay, for making brick, with bricklet.

Pettinos Brothers, Byers, Pennsylvania.
Graphite.

Pewabic Mining Company, Iron Mountain, Wisconsin.
Iron ore from Pewabic Mines.

Peyton, Gill S., Picnic Mine, Silver City, Utah.
Silver and lead ore.

Phal, Richard, Platt & Gilson Mine, Tuolumne County, California.—Gold quartz (rich).

Pharmacist Mining Company, Cripple Creek, Colorado.
Gold ore, fluorite, and quartz, $100 gold per ton.

Pierce, John, 5 Beekman St., New York City.
Polished red granite columns utilized in construction of facade of U. S. mining exhibit.

Pierce, J. V., Cherokee County, Kansas.
Collective exhibit of lead and zinc ores.

Pigeon Roost Belt, Lumpkin County, Georgia.
Gold ore.

Pike Manufacturing Company, Pike Station, New Hampshire.—Whetstone of all kinds.

Pilgrim Mining Company, Cave Spring, Missouri.
Zinc ore from soft ground, calamine, and concentrates. Concentrates 63 per cent zinc.

Pinnacle Gold Mining Company, Cripple Creek, Colo-rado.—Gold ore, phonolite, and basalt, from $20 to $2,000 per ton in gold.

Pittsburg & Wheeling Coal Company, Cleveland, Ohio.
Bituminous coal.

Pittsburg & Lake Angeline Mining Company, Mar-quette, Michigan.—Iron ore from Lake Angeline.

Pittsburg Coal Company, Pittsburg, Pennsylvania.
Bituminous coal.

Pittsburg Coal Mining Company, Somersville, Califor-nia.—Bituminous coal.

Pittsburg Crushed Steel Company, Pittsburg, Pennsyl-vania.—Polishing substances, crushed steel, and steel emery.

Place, O. F., Buckeye Mine, Bradshaw Mountains, Ari-zona.—Gold, silver, and lead ore.

Placerville Gold Mining Company, Rosebud Mine, El Dorado County, California.—Gold quartz.

Plastic Kaolin Company, The, Edgar, Florida.
Ball clay, accompanied by example in bricklet form.

Platt Pressed Brick Company, Van Meter, Iowa.
Fire clays, for manufacture of fire brick, tiles, etc.

Pleasant River Granite Company, Portland, Maine.
Granite.

Pleasant Valley Coal Company, Salt Lake City, Utah.
Bituminous coal.

Plymouth Consolidated Mining Company, Plymouth Mine, Amador County, California.—Gold quartz (from a chute that yielded $10,000,000).

Pomona Terra Cotta Company, Pomona, North Carolina.
Shale, for manufacture of paving and vitrified brick.

Poole Brothers Publishing Company, Chicago.
Mining Directory and Reference book.

Poole's Granite & Marble Company, Elmton, Massachusetts.—Granite.

Polar Star Mining Company, Silverton, Colorado.
Gold and silver ore.

Porter, Charles M., Joplin, Missouri.
Lead ore, galena.

Portland Cement Company, Salt Lake City, Utah.
Crude and prepared cement.

Portland Mining Company, Cripple Creek, Colorado.
Gold ore, including the rare sylvanite of that district.

Poston, C. L., & Company, Nelsonville, Ohio.
Bituminous coal.

Prairie Creek Coal Company, Huntington, Arkansas.
Bituminous coal.

Pratt, A. C., Red Canon, Nevada.
Lead, silver, and iron ore.

Prescott Mining Exchange, Prescott, Yavapai County, Arizona.—Gold, silver, lead, and copper ore.

Preston, E. B., Evening Star Mine, Hayden Hill, California.—Gold quartz, anglesite, aragonite, calcites, molybdenite, coal.

Pridgeon, D. E., Salem, Ohio.
Clay, for manufacture of brick, accompanied by bricklet.

Princeton University, Princeton, New Jersey.
Collection of minerals of the oxide group, occurring in the United States, by E. R. Hewitt.

Providence Gold Mining Company, Providence Mine, Nevada County, California.—Gold quartz, assaying $1,200 per ton.

Pulaski Iron Company, Pulaski, Virginia.
Iron and zinc ore, limonite, hematite, and zinc accretions from stack of furnace.

Purington Paving Brick Company, Galesburg, Illinois.
Shale for making paving and vitrified brick.

Putnam's, G. P., Sons, New York City.
Publications on geology, mining, metallurgy, and mineralogy.

Pyle, D. M., St. Elmo Mine, Kern County, California.
Gold quartz (rich—assays $1,000 per ton).

Pyramid Mining Company, Pyramid Mine, El Dorado
County, California.—Gold quartz.

Queen County Stoneware Company, Denver, Colorado.
Stoneware clay, for manufacture of stoneware, etc.

Quicksilver Mining Company, New Almaden, Santa
Clara County, California.—Mercury ore, cinnabar.

Quincy Mining Company, Hancock, Michigan.
Copper rock.

Rainbow Mining Company, Sierra County, California.
Arsenical pyrite; silver ore from Inyo County.

Rand Drill Company, New York City.
Rock drills for mine and quarry work, air compressors, prospecting and core drills.

Randolph, B. S., Frostburg, Maryland.
Sandstone.

Rangel, Robert, Henly, California.
Sandstone.

Ranlett, Captain, Calaveras County, California.
Copper ore.

Raton Coal & Coke Company, Raton, New Mexico.
Bituminous coal.

Raycraft, E., Douglas County, Nevada.
Copper ore.

Raymond Granite Company, Raymond Granite Quarry,
Madeira County, California.—Granite.

Raymond, M., Star Mine, Fresno County, California.
Silver ore.

Raymond & Ely, Ely, Nevada.
Silver ore.

Reardon, George W., Ward, Colorado.
Iron ore.

Red Umbrella Mining Company, Cripple Creek, Colo-
rado.—Gold ore, basalt, and quartz, assaying from $20 to $40 per ton gold.

Redway, J. W., Los Angeles County, California.
Vivianite, siderite.

Reed, A. J., Blue Bird Mine, Nevada.
Copper ore.

Reed, C., Diamond, Nevada.
Lead and silver ore.

Reed, C. F., Gold Blossom Mine, Placer County, Cali-
fornia.—Gold quartz.

Reed, H. W., Ouray, Colorado.
Silver lead ore.

Reeves, C. P., Suisun, Solano County, California.
Sandstone.

Reid, I. H., Union Mine, Calaveras County, California.
Azurite (rich).

Reims, Thomas C., & Company, Osceola Mills, Pennsyl-
vania.—Bituminous coal.

Reinhold, H., & Company, Custer, South Dakota.
Spodumene, shipping 1,000 tons to Germany for extraction of lithia.

Rend, W. P., & Company, Chicago.
Bituminous coal.

Republic Iron & Steel Company, Chicago.
Iron ore.

Republic Mining Company, Republic, Michigan.
Iron ore from Republic Mine.

Republic Mining & Manufacturing Company, Rock Run, Alabama.—Bauxite.

Rhode Island Granite Works, Westerly, Rhode Island.
Granite.

Rhode Island Graphite Company, Arlington, Rhode Island.—Graphite.

Rhodes, E. & D., Lincoln County, North Carolina.
Potter's clay, for manufacture of earthenware, etc.

Rhodes, M. G., Aetna Mines, Napa County, California.
Quicksilver ore, cinnabar.

Rhopeter, George, Lone Pine Mine, Big Bug District, Arizona.—Copper ore.

Richardson, J. M., Star of the West Mine, Calaveras County, California.—Gold quartz.

Richards, T., Sheridan Mine, Calaveras County, California.—Azurite.

Rich Hill Coal & Mining Company, St. Louis, Missouri.
Bituminous coal.

Richmond Consolidated Mining Company, Richmond, Nevada.—Lead and silver ore.

Richmond Mining & Milling Company, Salina, Boulder County, Colorado.—Gold ore, showing petzite.

Richmond Mining Company, Carterville, Missouri.
Zinc and lead ores, sphalerite and galena.

Rickard, Forbes, Seventy Six Mine, Gilpin County, Colorado.—Gold and silver ore.

Rider, P. S., Rico, Colorado.
Collection of the Enterprise ores.

Ridgway Burton Company, Massillon, Ohio.
Bituminous coal.

Ridgway Mining Company, Silverton, Colorado.
Gold and silver ore.

Rittenhouse, N. M., Baltimore, Maryland.
Clay, for manufacture of brick, accompanied by bricklet.

Riverside Iron Works, Wheeling, West Virginia.
Bituminous coal.

Roach, James, Tuckahoe, Missouri.
Zinc ore, sphalerite in clay.

Roach, Thomas, Yavapai County, Arizona.
Gold quartz.

Roberts, P. Z., North Star Mine, Nevada County, California.—Gold quartz.

Robins Conveying Belt Company, Park Row Buildings, New York City.—Operating belt conveyors for handling ore, coal, and tailings in smelters, cyanide works, and concentrating plants.

Robinson Mining Company, Mammoth, Utah.
Silver, lead, and copper ore.

Rochester & Pittsburg Coal & Iron Company, Punxsutawney, Pennsylvania.—Bituminous coal.

Rockhill Iron & Coal Company, Rock Hill Furnace, Pennsylvania,—Bituminous coal.

Rocklind Quarry Company, Rocklind Quarry, Placer County, California.—Granite.

Rockport Granite Company, Boston, Massachusetts.
Granite.

Rocky Ford Coal Company, Red Lodge, Montana.
Bituminous coal.

Rock River Brownstone Company, Bay City, Michigan.
Sandstone.

Rocky Point Granite Works, Exeter, Tulare County, California.—Granite.

Roeder, Henry, New Whatcom, Washington.
Sandstone.

Rogers, Brown & Company, 71 Broadway, New York City.—Raw materials used in the manufacture of pig iron.

Rogers Mining Company, Stokes County, North Carolina.—Iron ore.

Rogers, Mrs. L. S., Kern County, California.
Ingot of antimony.

Rogers, O. T., Granite Company, Quincy, Massachusetts.
Granite.

Rohwer, George, Lewis Mine, Telluride, Colorado.
Silver, gold, and lead ore.

Romer Mining Company, Easton, Pennsylvania.
Iron ore from Richards Mine.

Romona Oolitic Stone Company, Indianapolis, Indiana.
Limestone.

Rosenheimer, John, Cedar Lake Park, Wisconsin.
Clay, for making brick, accompanied by bricklet.

Rosenthal, J., Empire City, Kansas.
Zinc and lead ore, sphalerite and galena.

Rosiclaire Mining Company, Rosiclaire, Illinois.
Lead ore, sandstone, limestone, fluorite, etc.

Ruckel, A. D., & Son, White Hall, Illinois.
Stoneware clay, for the manufacture of stoneware, etc.

Russell, G., Elko, Nevada.
Mineral soap.

Russell Mining Company, Potosi, Washington County, Missouri.—Lead ore, galena.

St. Anthony Mining & Milling Company, Sunset, Boulder County, Colorado.—Gold and copper ore.

St. Bernard Coal Company, Earlington, Kentucky.
Bituminous coal.

St. Joe Lead Company, The, Bonne Terre, Missouri.
Lead ores, limestone, etc.

St. Joe Lead Company, St. Louis, Missouri.
Lead ore, galena, and concentrates.

St. Louis Well Machine & Tool Company, St. Louis, Missouri.—Well-drilling machine in operation.

Sagamore Coal Company, Sagamore, Michigan.
Bituminous coal.

Salisbury Mining & Milling Company, Idaho Springs, Colorado.—Gold and silver ore, showing bornite.

Salmon River Mining Company, Contact, Nevada.
Copper ore.

Salt Lake City Onyx Company, Salt Lake City, Utah.
Onyx.

Salt Lake Coal Company, Salt Lake City, Utah.
Bituminous coal.

Sanford, Albert B., Griffith Mine, Clear Creek County, Colorado.—Silver, lead, copper, and iron ore.

San Benito Mining Company, New Idria Mine, San Benito County, California.—Quicksilver ore, cinnabar.

Sanderson, F., Riddles, Oregon.
Nickel ore, genthite.

San Diego Marble Company, San Diego Marble Quarry, San Diego County, California.—Marble.

San Fernando Company, San Fernando, Los Angeles County, California.—Sandstone.

San Francisco & San Joaquin Coal Company, San Fran-cisco, California.—Bituminous coal.

San Francisco Slate Company, Placer County, Califor-nia.—Slate.

San Francisco Street Improvement Company, Bitumen Mine, Ventura County, California.—Bituminous rock.

San Juan Star Mining Company, Silverton, Colorado.
Gold and silver ore.

Sauser, Andre, Caliente Creek, Kern County, California.
Silver ore.

Schmidt, W., White Plains, Nevada.
Phosphates.

Schnabel, D. M., Bellevue Mine, Placer County, Cali-fornia.—Gold quartz.

Schneider Granite Company, St. Louis, Missouri.
Granite.

Schneider, Louis, Valley Forge Mine, Boulder County, Colorado.—Telluride gold ore, with native tellurium.

School of Mines, Columbia University, New York.
Scientific publications.

Schreiber, W. A. H., Webster, North Carolina.
Nickel and chromic iron ore.

Schuritzer & Boyer, Churchill County, Nevada.
Copper ore.

Schweyer & Liess, King-of-Prussia, Pennsylvania.
Marble.

Scientific Publishing Company, The, New York City.
Publications: Geology, mining, metallurgy, and mineralogy.

Schlesinger, Ferdinand, Milwaukee, Wisconsin.
Iron ores.

Scott Brothers, Black Oak Mine, Tuolumne County, California.—Gold quartz, from 300 to 700 foot levels.

Scranton, Jewett, Summit Mine, Shasta County California.—Gold quartz.

Seager, A. L., Antelope Valley, Los Angeles County, California.—Marble.

Seaton Mining & Milling Company, Idaho Springs, Colorado.—Gold, silver, and lead ore.

Sebewaing Coal Company, Sebewaing, Michigan.
Bituminous coal.

Sellwood, Joseph, Duluth, Minnesota.
Iron ore from Brotherton Mine.

Semon, Adolph, Meshoppen, Pennsylvania.
Bluestone.

Sharwood, W., Soulsby Mine, Tuolumne County, California.—Gold quartz, with galena (rich).

Shasta Mining Company, Mount Shasta Mine, Shasta County, California.—Silver ore.

Shawmut Coal Company, St. Marys, Pennsylvania.
Bituminous coal.

Shearer, F. E., Eagle Bird Mine, Nevada County, Cali-
California.—Gold quartz.

Sheriff Mining Company, Cripple Creek, Colorado.
Gold ore, phonolite, and quartz.

Sherman, W. A., Salt Lake City, Utah.
Gold ores from the Sunshine Mines.

Shockley, W. H., Mount Diablo, Nevada.
Gold and silver ore, lead and silver ore.

Sierra Buttes Gold Mining Company, Uncle Sam Mine,
Shasta County, California.—Gold quartz, $50.00 per ton.

Sills, W. H., Mica Company, Chicago.
American mica, natural formation and manufactured products.

Silver Bow Mining Company, Napa County, California.
Cinnabar.

Silver Dick Mining Company, Oronogo, Missouri.
Zinc ore, crystallized sphalerite.

Silver King Mining Company, Silver King, Utah.
Lead and silver ore.

Silver, Lowry, Corney Mine, San Bernardino County,
California.—Silver and copper ore.

Silverthorn, G. W., Gdalpom Mine, Shasta County, Cali-
fornia.—Limonite.

Simpson, Edward, Salt Lake City, Utah.
Aluminum earth.

Sims Coal Company, Sims, North Dakota.
Bituminous coal.

Sinnamahoning Gold & Copper Company, Sierra Coun-
ty, New Mexico.—Copper ore.

Slatington Slate Company, Slatington, Pennsylvania.
Slate.

Sloan, R. E., Yeager Mine, Black Hills, Arizona.
Copper ore, showing cuprite.

Sloss Furnace, The, Birmingham, Alabama.
Iron ores.

Sloss Iron & Steel Company, Birmingham, Alabama.
Bituminous coal.

Smith, A. L., Little Chief Mine, Inyo County, California.—Silver ore; magnetite from Coast Range Mine, San Benito County.

Smith, Chandler, Chandler Smith Mine, Shasta County, California.—Gold quartz.

Smith Granite Company, Westerly, Rhode Island.
Granite.

Smith & McNicol, Addie, North Carolina.
Kaolin, for manufacture of earthenware, etc.

Smith, W. T., Elko County, Nevada.
Shale.

Smuggler Union Mining Company, The, Telluride, Colorado.—Gold, silver, and lead ore.

Southern Mining Company, Atlanta, Georgia.
Bituminous coal.

Southern Railway Company, Washington, D. C.
Ores and minerals from North Carolina, Georgia, and Alabama.

South Eureka Mining Company, South Eureka Mine, Amador County, California.—Gold quartz.

South Side Mining & Manufacturing Company, Galena, Kansas.—Zinc and lead ores, sphalerite, galena.

South Spring Mining Company, South Spring Mine, Amador County, California.—Wall rock.

South Swansea Mining Company, South Swansea Mine, Silver City, Utah.—Silver and lead ore.

Southwestern Coal & Improvement Company, Coalgate, Indian Territory.—Bituminous coal.

Southwest Virginia Improvement Company, Philadelphia, Pennsylvania.—Bituminous coal.

Specie Payment Mining Company, Clear Creek County, Colorado.—Gold and silver ore.

Spring Valley Hydraulic Company, Spring Valley Mine, Butte County, California.—Wood model of hydraulic sluice box.

Squier, E. E., & Co., St. Louis, Missouri.
Foundry moulding sand.

Staddon, Samuel, Santa Barbara, California.
Quicksilver lead.

Standard Asphaltum Company, Standard Mine, Ventura County, California.—Crude and refined asphaltum.

Standard Asphalt Company, San Francisco, California.
Crude and refined asphaltum.

Standard Coal & Coke Company, Newcomb, Tennessee.
Bituminous coal, coke.

Standard Oil Company, 26 Broadway, New York City.
Petroleum: The conditions of its occurrence, its products, their uses, and the methods of their distribution.

Stanley Consolidated Mining Company, Idaho Springs, Colorado.—Gold and silver ores.

Stanstead Granite Quarries, Beebe Plain, Vermont.
Granite.

Star Consolidated Mining Company, Mammoth, Utah.
Gold, silver, lead, and copper ore.

Stark & Rolsten, Joplin, Missouri.
Zinc ore, disseminated sphalerite in chert.

State Ore Sampling Company, Evergreen Mine, Pine Creek, Gilpin County, Colorado.—Gold, silver, and copper ore.

Steel, T., Oro Mine, Inyo County, California.
Silver ore from 750 foot level. Gold ore.

Stein & Boericke, Philadelphia, Pennsylvania.
Alloys, and rare minerals used in their manufacture.

Sterling Coal & Coke Company, Salt Lake City, Utah.
Bituminous coal, coke.

Steubenville Coal & Mining Company, Steubenville, Ohio.—Bituminous coal.

Stevens, B. H., Calico, San Bernardino County, Cali- fornia.—Borate of lime and magnesia.

Stevens Coal Company, Coalburg, West Virginia.
Bituminous coal.

Stevens, H., Calistoga Mine, Napa County, California.
Clay.

St. Lawrence Marble Company, Gouverneur, New York.
Marble.

Stockbridge Soapstone Works, Colfax, Placer County, California.—Soapstone.

Stockwell, H. E., Star Mine, Fresno County, California.
Argentiferous galena.

Stoiber, Edward G., & Company, Silver Lake Mine, Silverton, Colorado.—Gold and silver ore.

Stoiber, G. H., Robert Bonner Mine, Silverton, Colo- rado.—Gold and silver ore, showing free gold.

Stone, W. B., Galena, Kansas.
Zinc and lead ores, from Galena and Empire City, Kansas.

Stony Creek Red Granite Company, Stony Creek, Con- necticut.—Granite.

Storms, W. H., Sheep Ranch, Calaveras County, Cali- fornia.—Limonite.

Stowe, H., San Bernardino, San Bernardino County, California.—Clay.

Stow, H. P., Gold Bank Mine, Butte County, California.
Quartz crystals and gold quartz.

Stump, S. C., Fine Gold Mine, Fresno County, Cali- fornia.—Gold quartz.

Sublette, William, Carga Muchacha Mine, San Diego County, California.—Gold quartz (rich).

Sullivan, William, Silverton, Colorado.
Gold and silver.

Summit Mining Company, San Bernardino County, California.—Gold quartz.

Sun Dance Mining Company, Silver Trail Mine, Sena- tor District, Arizona.—Gold, silver, and copper ore.

Sunset Mining Company, Granby, Missouri.
Zinc ore, calamine, and sphalerite.

Sunset Mining Company, Sunset Mine, Kern County, California.—Sulphur.

Sunshine Mining Company, Telluride, Colorado.
Gold and silver ore.

Superior China Clay Company, Chippewa Falls, Wisconsin.—Kaolins, for manufacture of earthenware, etc.

Sutherland, W. J., Holmes, Nevada.
Lead and silver ore.

Swain, W., Gold King Mine, San Diego County, California.—Gold quartz.

Sweet, W. H., Dudley, Pennsylvania.
Bituminous coal.

Sweetwater Coal Company, Rock Springs, Wyoming.
Bituminous coal.

Sykes, C. P., 33 Broadway, New York City.
Two onyx slabs and six marble columns furnished for facade to mining space; lithographic stone.

Sylvester, H., Rocky Glen Mine, Nevada County, California.—Gold quartz.

Taft & Dunn, Sterling, Arizona.
Copper ore.

Taggart & Hall, Gold Bronze Mine, San Bernardino, County, California.—Gold quartz.

Taylor, R. B., Taylor Mine, Death Valley, Inyo County, California.—Gold quartz.

Tehachapi Building & Stone Company, Tehachapi, Kern County, California.—Sandstone.

Teich, Frank, San Antonio, Texas.
Granite.

Temescal Mining Company, Temescal Mine, Riverside County, California.—Tin ore.

Temple, E. S., Emancipation Mine, Salina, Boulder County, Colorado.—Gold ore, showing tellurium, and ore roasted freeing gold.

Tennessee Coal, Iron & Railroad Company, Birmingham, Alabama.—Iron ores, limonite, and hematite, bituminous coal.

Tennessee Producers Marble Company, Knoxville, Tennessee.—Marble.

Texas & Pacific Coal Company, Fort Worth, Texas.
Bituminous coal.

Texas Briquette & Coal Company, Briquette, Texas.
Bituminous coal.

Texas Consolidated Mining Company, Texas Mine, Shasta County, California.—Gold quartz.

Texas Mining Company, Los Angeles County, California.—Rich gold quartz.

Thacker Coal & Coke Company, Thacker, West Virginia.—Bituminous coal, coke.

Thies, J., Humboldt, Nevada.
Sulphur, crude and refined.

Thompson Mining Company, Deadwood, South Dakota.
Gold ore.

Thompson Run Coal Company, New Castle, Pennsylvania.—Bituminous coal.

Thorp & Son, Mountain View, Nevada.
Antimony.

Thorp, H. T., Terre Haute, Indiana.
Shale, for manufacture of paving and vitrified brick.

Tiffany & Company, Union Square, New York City.
American gems in the rough, precious and semi-precious.

Tiger Mining & Milling Company, Silverton, Colorado.—Gold and silver ore.

Timber Line Mining Company, Ward, Colorado.
Pyritic gold ore.

Tinsley, C. D., Prince George County, Virginia.
Ochre.

Tomboy Gold Mines Company, Telluride, Colorado.
Gold ore.

Trade Dollar Mining & Milling Company, Silver City, Idaho.—Silver ore, showing argentite.

Traupell, Eugene, Dolly Varden Mine, Sunset, Colorado.—Chalcopyrite containing gold values.

Treedley, J. K., & Sons, Philadelphia, Pennsylvania.
Marble from Vermont.

Tregarden Brothers, Yellville, Arkansas.
Zinc ore blende from White Eagle Mine, Marion County, Arkansas.

Troop, William, Shingle Springs, El Dorado County, California.—Yellow ochre.

True Blue Marble Company, Rutland, Vermont.
Marble.

Tuck, J. H. L., Oro Fino Mine, El Dorado County, California.—Gold quartz.

Tungsten Mining Company, Omaha, Nebraska.
Wolframite, from Hill City, South Dakota.

Turner Brick Company, West Chicago, Illinois.
Clay, for making of brick, accompanied by bricklet.

Turner Coal, Coke & Mining Company, Ferris, Pennsylvania.—Bituminous coal, coke.

Tyler, Charles M., King Mine, San Bernardino County, California.—Silver ore (rich).

Tyro Mining Company, Tyro Mine, Nevada County, California.—Gold quartz (very rich).

Tyson Mining Company, El Dorado County, California.
Chromic iron ore and cinnabar.

Ulster Bluestone Company, Malden, New York.
Sandstone.

Uncle Sam Mining Company, Uncle Sam Mine, Shasta County, California.—Gold quartz.

Union Copper Company, Gold Hill, North Carolina.
Copper ore.

Union Glee Club of San Francisco, Reward Mine, Nevada County, California.—Gold quartz, $1,200 per ton.

Union Gold Mining Company, Cripple Creek, Colorado.
Gold ore, phonolite, fluorite, showing tellurium and galena.

Union Iron Works, San Francisco, California.
Working model of a complete California gold quartz mill.

Union Lead Company, St. Louis, Missouri.
Cobalt, nickel, and lead ores, galena and other sulphides.

Union Oil Company, San Francisco, California.
Asphalt.

Union Pacific Company, Omaha, Nebraska.
Bituminous coal.

Union Sand Paper Company, Roxbury, Connecticut.
Garnet crystals.

Union Soap-Stone Company, Boston, Massachusetts.
Soap-stone.

Union Sulphur Company, Sulphur, Louisiana.
Sulphur.

United Globe Mining Company, Globe, Arizona.
Copper ores, with malachite, azurite, and chrysocolla.

United States Marble Company, Spokane, Washington.
Onyx and serpentine.

United States Mining Company, Bingham, Utah.
Iron pyrite crystals.

Universal Company, Chicago.
Bituminous coal.

University of Chicago, Chicago, Illinois.
Collection of minerals included in Group III. of Dana's classification. Collected by J. P. Iddings.

University of Wyoming, Laramie, Wyoming.
Block of soda, mirabilite; from Downey deposits.

Updike, N. B., Lone Gum, Virginia.
Alum rock.

Utah Mining Company, Fish Springs, Utah.
Silver and lead ore.

Utica Mining Company, Utica Mine, Calaveras County, California.—Wood model of mine timbering.

Van Houten, J., Raton, New Mexico.
Gold dust and nuggets.

Van Nostrand, D., & Company, New York.
Publications upon geology, mining, metallurgy and mineralogy.

Verd-Antique Marble Company, Chicago.
Georgia verd-antique marble.

Verdenal, D. F., Rainbow Mine, Inyo County, California.—Silver ore (rich).

Vermont Marble Company, Proctor, Vermont.
Marble.

Victor Coal Company, Denver, Colorado.
Bituminous coal.

Victor Marble Company, Victor, San Bernardino County, California.—Marble.

Vilas Mining Company, Breckenridge, Colorado.
Lead ore.

Virginia Coal & Coke Company, Gayton, Virginia.
Bituminous coal.

Virginia Iron, Coal & Coke Company, Bristol, Tennessee.—Iron ores from Virginia and Tennessee mines; coal and coke.

Voy, C. D., Rabbit Creek, Sierra County, California.
Model of gold nugget, value $3,240.50.

Vulcanized Fiber Company, Eureka Mine, Calaveras County, California.—Yellow ochre.

Wagner, C. M., Dunseith, North Dakota.
Ballast clay, for railway ballast, showing prepared product.

Walsh, Thomas F., Camp Bird Mine, Ouray, Colorado.
Gold ore, mine producing $5,000 per day.

Wampum Run Coal Company, Wampum, Pennsylvania.—Bituminous coal.

Ward & Capito, Watsonville Mine, Bradshaw Mountains, Arizona.—Gold, silver, and lead ore.

Ward, E. B., Little Lake, California.
Sulphur, crude.

Ward, W. S., Denver, Colorado.
Ores from Cripple Creek.

Warsaw Blue Stone Company, Warsaw, New York.
Bluestone.

Washington Junction Stone Company, Point of Rocks, Maryland.—Mosaic marbles and brownstone.

Waterman, W. S., Waterman Quarry, San Diego Coun- ty, California.—Granite.

Watertown Brick Company, Watertown, New York.
Clay, for making brick, accompanied by bricklet.

Watts & Heikes, Boulder, Colorado.
Tellurium crystals.

Watts & Melton, Brown Bear Mine, Trinity County, California.—Gold quartz.

Webber, F., Alum Creek, Nevada.
Gold ore.

Webb Granite & Construction Company, Worcester, Massachusetts.—Granite from New Hampshire.

Webb, I. A., Deadwood, South Dakota.
Collection of Black Hills ore.

Wedge Mining Company, Wedge Mine, Ouray, Ouray County, Colorado.—Silver lead ore.

Weir, John, Lead & Zinc Company, Mossy Creek, Ten- nessee.—Zinc blende and galena.

Wells, George A., Great Falls, Montana.
Sapphires and other gems, in the rough.

Wells, Heber C., Salt Lake City, Utah.
Collection of ores representative of Utah's mineral wealth.

Welsbach Light Company, Broad and Arch Sts., Philadelphia, Pennsylvania.—Monazite sand.

Western Coal & Mining Company, St. Louis, Missouri.
Bituminous coal.

Westfield Marble & Sandstone Company, Westfield, Massachusetts.—Serpentinic marble.

Westmoreland Coal Company, The, Philadelphia, Penn- sylvania.—Collection of coals.

Weston, S. G., Elko County, Nevada.
Copper ore.

West Virginia Central & Pittsburg Railway Company,
Piedmont, West Virginia.—Bituminous coal.

Wetherby, A. G., Mitchell County, North Carolina.
Iron ore.

Wheeler & Hurlbert, Ouray County, Colorado.
Silver lead ore.

Whipsaw Mining Company, Whipsaw, Castle Creek,
Arizona.—Gold and copper ore.

White Breast Fuel Company, Chicago.
Bituminous coal.

White, Peter, Marquette, Michigan.
Gold from Michigan Gold Mine.

Wickford & Snapp, White Star, Yavapai County, Arizona.—Gold and silver ore.

Wick, H. K., & Company, Buffalo, New York.
Bituminous coal.

Wiley, J., & Son, New York.
Publications on mineralogy, etc.

Wilkinson Coal & Coke Company, Wilkinson, Washington.—Bituminous coal, coke.

Williams & Company, Boston, Massachusetts.
Soapstone, from Vermont and New Hampshire.

Williams, C. K., & Company, Lehigh County, Pennsylvania.—Iron oxides, red and yellow, and other mineral paints

Williams, David, Company, New York.
Publication: The Iron Age, having relation to the Iron Industry.

Williams, E. W., Central City, Colorado.
Gold ore.

Williams, J. A., Gunsight Mine, Inyo County, California.—Silver ore.

Williams, John R., Buckingham, Virginia.
Slate.

Williams, W., Look Out Mine, Trinity County, California.—Gold quartz.

Willis, G. F., Sacramento Mine, Mono County, California.—Gold quartz.

Wilmington Star Mining Company, Coal City, Illinois.
Bituminous coal.

Wilson, F. J., Lewisburg, Ohio.
Limestone.

Wilson, W., Pine Grove, Nevada.
Gold, silver, and lead ore.

Windsor Lead & Zinc Company, Empire City, Kansas.
Zinc and lead ore, sphalerite, and galena.

Winslow, J. H., Riddles, Oregon.
Nickel ore, showing mineral genthite.

Winsor, Mulford, Cibola Quarry, near Yuma, Arizona.
Building stone.

Wirth & Hulings, Wirth Mine, Ward, Colorado.
Gold ore.

Wise, A., Humboldt County, Nevada.
Native sulphur.

Withersbers, Sherman & Company, Port Henry Mines, Port Henry, New York.—Iron ore.

Wohler, C., Edison Mine, Nevada County, California.
Copper sulphide.

Wood, H., & Brothers, Adelaide Mine, Calaveras County, California.—Gold quartz.

Wood, H. E., Louisville Mine, Leadville, Colorado.
Crystallized pyrites.

Wood, Henry E., Denver, Colorado.
Galena, iron pyrite, and feldspar crystals.

Woodhull, S. D., Inyo County, California.
Quartz crystal, calcites, silver ore, silver lead ore, copper ore with cuprite.

Woods Investment Company, Colorado Springs, Colorado.—Collection of gold ores.

Wood, T. S., Lillian Mine, Leadville, Colorado.
Native gold, crystals and leaf.

Woodward Iron Company, Birmingham, Alabama.
Red iron ores.

Woody, William, Cincinnati Mine, Merced County, California.—Cinnabar.

Work Mining & Milling Company, Cripple Creek, Colo- rado.—Gold ore, fluorite, and quartz.

Wormser Filter Plate Company, Carthage, Missouri.
Tripoli.

Wright, J. D., Sonora, California.
Clay.

Wyatt, J. T., Faith, North Carolina.
Granite.

Wyoming, State of, Engineering Department.
Geological and Engineering reports.

Wythe Zinc & Lead Company, Austinville, Virginia.
Zinc lead ore, galena, smithsonite, and sphalerite, concentrates.

X-Ray Mining Company, Granby, Missouri.
Lead and zinc ores, galena, calamine, sphalerite, greenockite and tallow clay, chert and limestone.

Yankee Girl Mining Company, Red Mountain, Colo- rado.—Silver ore, bornite.

Yellow Jacket Mining Company, Comstock, Virginia City, Nevada.—Sulphurets.

Yerington, J. A., Carson City, Nevada.
Ores and minerals representing mineral wealth of Nevada.

Yost, John, Junction Mine, Tuolumne County, Cali- fornia.—Gold quartz.

Young, B. H., Gold Band Mine, Deep Creek, Utah.
Copper silver ore.

Young, C. W., Calais, Maine.
Granite.

Young, Mrs. J., Gold Chief Mine, San Bernardino Coun- ty, California.—Gold quartz.

Yreka Journal Publishing Company, Yreka, California.
Sandstone.

Zadig & Company, S. F., Zadig Mine, Ventura County, California.—Asphaltum rock.

Zanesville Stoneware Company, Zanesville, Ohio.
Clay for manufacture of stoneware, etc.

Zenobia Mining Company, Cripple Creek, Colorado.
Gold ore, quartz with tellurium, value $14,000 per ton.

Zimmerman, Dr., Silverton, Colorado.
Tungsten ore, wolframite, scheelite, hubnerite.

Zuni Mining Company, Silverton, Colorado.
Gold and silver ore.

CLASS 64.

METALLURGY

Amalgamated Copper Company, Butte, Montana.
Intermediate products from the furnace—slags, mattes, etc.

American Steel & Wire Company, New Jersey and New York City.—Manipulation of iron and steel from the ores.

American Steel Hoop Company, Pittsburg, Pennsylvania.
Exhibits illustrating the manufacture of iron and steel.

American Tin Plate Company, Chicago.
Tin and terne plates, fine steel sheets, billet to the finished material.

Ansonia Brass & Copper Company, Ansonia, Connecticut.
Copper bars, sheets of rolled and planished copper.

Argillo Works, Carbon Cliff, Illinois.
Refractory clay for metallurgical use.

Bethlehem Steel Company, South Bethlehem, Pennsylvania.
Photographs illustrating equipment for working steel in large masses. Armor plates after being tested.

Boston and Colorado Smelting and Refining Company, Richard Pearce, Manager, Denver, Colorado.—Roasted mattes.

Boston & Colorado Smelting Company, The, Argo, Colorado.
Products showing the different stages of process employed in smelting.

Boston & Montana Consolidated Copper & Silver Mining Company, Butte, Montana.—Copper matte and smelter products.

Butte & Boston Mining Company, Butte, Montana.
Copper matte and smelter products.

California Paris Commission, San Francisco, California.
Model quartz stamp mill.

Carnegie Steel Company, Pittsburg, Pennsylvania.
Drawing of Duquesne Blast Furnace; records of practice; photographs.

Chateaugay Iron Ore Company, Plattsburg, New York.
Series of products of magnetic concentration.

Christy Fire Clay Company, St. Louis, Missouri.
Refractory clay for crucibles, etc., for metallurgical purposes.

Colorado Fuel & Iron Company, Denver, Colorado.
Pig iron and steel ingots, billets, rails, nails, and spikes; drawings and photographs of equipment.

Colorado Smelting & Mining Company, Butte, Montana.
Copper matte, ingot copper.

Copper Queen Mining Company, Bisbee, Arizona.
Copper, furnace products, and by-products made in reduction of ores.

Crescent Steel Company, Pittsburg, Pennsylvania.
Crucible and open-hearth steel and applications in the arts. Tool and die steel, polished rods, fine wire, hot-rolled sheets, bright cold-rolled strips, band-saw blanks, forgings, springs. Finished tools, dies and appliances made from the products.
Philadelphia, 1876, medal; Chicago, 1893, three medals.

De La Mar Mining Company, Mercur, Utah.
Products showing process of treating the base and oxydized ores.

Denver Fire Clay Company, Denver, Colorado.
Refractory clay for the manufacture of crucibles, etc., for metallurgical purposes.

Department of Mines, Commission to Paris, Chicago.
Methodical collection of technical metallurgy, ores, products, charts, drawings, and photographs.

Detroit Copper Mining Company, Morenci, Arizona.
Copper furnace products, copper matte, refined copper.

Des Loges Lead Company, Des Loges, Missouri.
Lead and furnace products, reverberatory process.

Dickinson Fire & Pressed Brick Works, Dickinson, North
Dakota.—Refractory clay for metallurgical purposes.

Edison Ore Concentrating Company, Orange, New Jersey.
Iron ore concentration represented by speciments of raw material and intermediate product.

Franklin, H. H., Manufacturing Company, Syracuse,
New York.—Specimens illustrating fine unfinished iron casting; a novel and unique method.

Graphic Mines & Smelting Works, The, Magdalena, New
Mexico.—Ores and fluxes from one mine.

Great Falls Fire Brick Company, Great Falls, Montana.
Refractory clay for the manufacture and use of metallurgical work.

Howe, Professor H. M., Columbia College, New York City.
Steel fractures, showing structure of steel by etching.

Illinois Steel Company, Chicago.
Blast furnace model: iron and steel in ingots, bars, sheets, or finished products.

Mackintosh, Hemphill & Company, Pittsburg, Pennsyl-
vania.—Drawings illustrating the construction of large improved "Blooming Train."

Morris, E. E., & Company, Cincinnati, Ohio.
Bar iron and steel.

New Jersey Zinc Company, Franklin Furnace, New Jer-
sey.—Samples illustrating the extraction of zinc from its ores.

Ohio Fire Brick Company, Oakhill, Ohio.
Refractory clay for metallurgical use.

Oliver, Greenwood K., 1214 John St., Baltimore, Maryland.
Special anti-friction metal, called "Silverine Babbitt," for bearings.

Parrot Silver & Copper Company, Butte, Montana.
Copper matte and smelter products.

Pearce, Richard, Manager, Boston & Colorado Smelting & Refining Company, Denver, Colorado.—Roasted mattes from Pearce Turret Furnace.

Pencoyd Iron Works, Philadelphia, Pennsylvania.
Structural and axle steel, photographs and statistics of steel manufacture.

Pittsburg Reduction Company, Pittsburg, Pennsylvania.
Aluminum extraction from the minerals cryolite and bauxite; aluminum ingots, manufactured aluminum.

Roebling's, John A., Sons Company, Trenton, New Jersey.—Process of manufacture of wire, iron, steel, copper, and bronze.

Rogers, Brown & Company, 71 Broadway, New York City.—Specimens of every class of pig iron made in America.

Stirling-Firth Company, Pittsburg, Pennsylvania.
Steel armor-piercing projectiles after ballistic test, with details of tests.

Tamarack Mining Company, Hancock, Michigan.
Specimens illustrating the extraction of copper from copper ores.

Taylor Iron & Steel Company, High Bridge, New Jersey.
Cast steel shells after test, with details of test, statistics and complete data.

Taylor Iron & Steel Company, New York City.
Mine wheels, railroad crossings, stamps, coal crusher, etc.

United Globe Mining Company, Globe, Arizona.
Copper furnace products, copper matte, refined copper.

Valentine, M. D., & Son Company, Woodbridge, New Jersey.—Fire brick and cupola blocks.

Virginia Iron, Coal & Coke Company, Bristol, Tennessee.
Various ores, irons and steels; coal and coke; exhibit of mines and works in Virginia and in Tennessee.

Ward Pyritic Smelting Company, Ward, Colorado.
Iron matte and slag.

Wellman Seaver Engineering Company, Cleveland, Ohio.
Drawings illustrating the manufacture of iron and steel.

CLASS 65.

METAL WORKING.

Amalgamated Copper Company, Butte, Montana.
Utensils, pipe, drawn tubes of copper.

American Steel & Iron Manufacturing Company, Reading, Pennsylvania.—Bolts, screws, rivets, punches, nuts, turnbuckles, spikes.

American Steel & Wire Company, New Jersey and New York City.—Wire ropes, nails, and all material used by the hardware trade.

American Tin Plate Company, Chicago.
Metal working, and manufactured articles of tin.

Atkins, E. C., & Company, Indianapolis, Indiana.
Steel saws.

Atlas Tack Company, Taunton, Massachusetts.
Tacks, nuts, bolts, brads, small nails.

Bommer Brothers, 257-271 Classon Ave., Brooklyn, New York.—Spring hinges.
Chicago, 1893, medal.

Colorado Fuel & Iron Company, Denver, Colorado.
Merchant iron and steel, railroad supplies, steel plates, etc.

Copper Queen Consolidated Mining Company, 99 John St., New York City.—Brass and copper bars, special shapes, tubing.

Crane Company, Chicago.
Tools for plumbers and steam and gasfitters. Fittings for steam engines.

Devlin, Thomas & Company, Philadelphia, Pennsylvania.
Saddlery hardware, buckles, rings, hooks, hinges, etc.

Eagle Lock Company, Terryville, Connecticut.
Locks, padlocks, keys, and small hardware.

Enterprise Manufacturing Company, Philadelphia, Pennsylvania.—Special patented hardware.

Franklin, H. H., Manufacturing Company, Syracuse, New York.—Castings; finished parts made by a process of casting which avoids machine work.

Hibbard, Spencer, Bartlett & Company, Chicago.
Household enameled ware, and metallic weather strips.

Hibbard, Rodman, Ely Safe Company, 253 Broadway, New York City. Safe in manganese steel, proof against burglars or mobs.

Illinois Steel Company, Chicago.
Metal plates, flanged, stamped, cut, decorated; drawn tubes and piping in iron.

Ingersoll-Sergeant Drill Company, New York City.
Equipments for and methods used in foundries of bronze, brass, and malleable iron, etc.

Irwin Auger Bit Company, Wilmington, Ohio.
Steel augers and bits.

Jorss, A. F., 315 13th St., N. W., Washington, D. C.
Railings in iron.

Kearney & Foot Company, 100 Reade St., New York City.
Files and rasps.

Manhattan Brass Company, New York.
Castings and railings in brass.

Metallic Flexible Tubing Company, Philadelphia, Penn-sylvania.—Metallic flexible tubing.

Morris, J. B., Foundry Company, Cincinnati, Ohio.
Iron castings.

North Brothers Manufacturing Company, Philadelphia, Pennsylvania.—Spiral screwdrivers, drills, and hardware specialties. Photograph of works.

Ohio Tool Company, Auburn, New York, and Columbus, Ohio.—Mechanics' woodworking tools.

Oneida Community, Limited, Niagara Falls, New York.
Weldless chains.

Peck & Snyder, 126 Nassau St., New York City.
Ice skates and roller skates.

Phoenix Horseshoe Company, Poughkeepsie, New York.
Horse and mule shoes.

Pike Manufacturing Company, Pike Station, New Hampshire.—Scythe stones, oil stones, razor hones, emery stones, polishing powder, corundum, etc.

Plumb, Fayette R., Frankford, Philadelphia, Pennsylvania.—Hammers, hatchets, cleavers, adzes, axes, bush hooks, picks, and mattocks.

Roebling's, John A., Sons Company, Trenton, New Jersey.—Wire, wire rope, bridge cables, electrical conductors, model of Brooklyn suspension bridge.

Shelton Company, The, Shelton, Connecticut, and 64 Reade St., New York City.—Tacks, small nails, bolts.

Standard Caster & Wheel Company, 318 East 23d St., New York City.—Ball-bearing furniture casters.

Stanley Rule & Level Company, New Britain, Connecticut.—Carpenters' tools.

Stanley Works, The, New Britain, Connecticut, and 79 Chambers St., New York City.—Builders' hardware.

Stein & Boericke, Philadelphia, Pennsylvania.
Alloys of tungsten and other metals.

Stover Manufacturing Company, Freeport, Illinois.
Builders' hardware.

Taylor Iron & Steel Company, New York City.
Burglar-proof safes, made of cast manganese steel.

Tyler, The W. S., Company, Cleveland, Ohio.
Ornamental gratings. Employed in the construction of the National Pavilion.

Williams, C. K., & Company, Lehigh County, Pennsylvania.
Red and yellow oxides of iron, and other mineral paints.

Williams, J. H., & Company, Brooklyn, New York.
Drop forgings of iron, steel, bronze, copper, aluminum. Vulcan chain pipe wrenches. Engineers' machine and railway wrenches. Hoist hooks, eye-bolts, parts for machine tools, engines, cycles, fire-arms, automobiles, typewriters. Drop forged mild steel golf club heads.

Winslow Brothers Company, The, Chicago.
Wrought iron portcullis gateway and adjoining electric bronze columns forming central entrance U. S. exhibit of mines and metallurgy. This company designed and manufactured the entire facade of the United States mines and metallurgy exhibit, and also built the pagoda for the American Steel & Wire Company.

Yale & Towne Manufacturing Company, The, New York City.—Builders' hardware, employed in the construction of the National Pavilion.

GROUP XII.

DECORATION AND FURNITURE OF PUBLIC BUILDINGS AND DWELLINGS.

M. H. HULBERT, DIRECTOR.

CLASS 66.

PERMANENT DECORATION OF PUBLIC BUILDINGS AND DWELLINGS.

Barney Marble Company, Swanton, Vermont.
Marble slabs for lavatories.

Beil & Mauch, 81 Illinois St., Chicago.
Ornamental plaster. Façade of Hall of Honor.

Bitter, Karl, Weehawken, New Jersey.
Permanent decorations in plaster.

Brant, C. E., 156 Fifth Ave., New York.
Plan of permanent decorations.

Bridgeport Wood Finishing Company, New Milford, Connecticut.—Finished wood and cabinet work.

Carr, Lyell, 103 West 54th St., New York.
Decorative painting on canvas frieze. U. S. Pavilion.

Columbia Marble Quarrying Company, Rutland, Vermont.
Marble tiles.

Drake & Company, 359 Drake Block, St. Paul, Minnesota.
Arizona petrified wood.

Eggleson, Thomas, New York.
Design for agricultural façade.

Garnsey, Elmer E., White Plains, New York.
Mural decorations.

Healy & Millet, 225 Wabash Ave., Chicago.
Permanent decorations in plaster.

Herter, Albert, East Hampton, Long Island, New York.
Decorative painting on canvas.

Kitson, Arthur, Philadelphia, Pennsylvania.
Ornamental lamp posts.

Klee, John, 327 East 40th St., New York City.
Ornamental work and staff, Groups XII and XV.

Koch, G. W., & Son, 467 5th Ave., New York.
Parquet in National Pavilion, teak wood, tiger wood and mahajua wood.

Koopman, August, 57th St., New York.
Decorative painting on canvas.

Lloyd Fresco Cleaning & Decorating Company, 13 West 42d St., New York.—Wall and ceiling decoration.

Mertz, George, & Sons, Port Chester, New York.
Automatic machine-turned and embossed wood moulding.

Northrup, Henry S., 40 Cherry St., New York.
Stamped steel ceilings.

Reid, Robert, 142 E. 33d St., New York.
Mural decorations.

Taft, Joseph H., 41 East 20th St., New York.
Ornamental joiner work; decorative plaster and painting.

Wallis, Frank E., Thompson Building, New York.
Design in façade.

Zallee, John, 311 1-2 N. 7th St., St. Louis, Missouri.
Patent asphalt and cement mixture roofing.

CLASS 67.

STAINED GLASS.

California Art Glass Bending and Cutting Works, San Francisco, California.—Stained glass.

Lamb, J. and R., 23 6th Ave., New York.
Stained glass.

Lathrop, Frank, 29 Washington Square, New York.
Stained glass.

Tiffany Glass & Decorating Company, 333-341 Fourth Avenue, New York City.—Colored glass windows for churches and other buildings.

Tiffany, Louis, 333 4th Ave., New York.
Stained glass.

CLASS 68.

PAPER HANGINGS.

Campbell, William & Company, New York.
Wall paper.

CLASS 69.

HOUSEHOLD AND ARTISTIC FURNITURE.

American Adjustable Folding Chair Company, 1144 Broadway, New York.—Adjustable chairs and reading desks.

American School Furniture Company, 111 5th Ave., New York.—School furniture.

Bicycle Step Ladder Company, 65 Randolph St., Chicago.
Rolling store service ladder for high shelving.

Bierbrier, F. E., 22 East 14th St., New York.
Revolving book-case.

Brunswick-Balke-Collender Company, New York and Chicago.—Billiard tables and accessories.

Davenport, A. H., Washington st., Boston, Massachusetts.
Furniture.

Drake & Company, 359 Drake Block, St. Paul, Minnesota.
Furniture in petrified wood.

Ford, J. S., Johnson & Company, 1433-1437 Wabash Ave., Chicago.—Chairs.

Girard, C. C., & Cutler, M., 23 East St., New York.
Carved and inlaid furniture.

Globe-Wernicke Company, The, Cincinnati, Ohio.
Patented "elastic" bookcases for libraries, etc.

Hayden Company, 1 West 34th St., New York.
Banking house furniture, colonial designs; modern show cases.

Irving & Casson, Boston, Massachusetts.
Show cases.

Keyless Lock Company, Indianapolis, Indiana.
Office desks, tables, and racks.

Knipp, John C., & Brother, 121 & 123 N. Howard St., Baltimore, Maryland.—Cases made of plain oak, for United States Commission in mines, chemical industries, etc.

Meader Furniture Company, Cincinnati, Ohio.
Show case.

Palmersberg, J. R., & Sons, 710 Broadway, New York.
Store fixtures.

Revell, Alexander H., & Company, Chicago.
Store fixtures and showcases.

Smith, B. & W. B., New York.
Show cases.

Standard Furniture Company, Herkimer, New York.
Flat and roll top office desks and filing cabinets.

Standard Manufacturing Company, Pittsburg, Pennsylvania.
Bath tubs, water closets, lavatory sinks, etc.

Taft, Joseph H., 41 East 20th St., New York.
Furniture. Frieze upon the façade of the exhibit of petroleum.

Tiffany Glass and Decorating Company, 333 Fourth Avenue, New York City.—Furniture.

Wells, A. J., Manufacturing Company, Syracuse, New York.
Office furniture.

Weston Paper & Manufacturing Company, Dayton, Ohio.
Stationers' store fixtures.

Widdicomb, John, Company, Grand Rapids, Michigan.
Bedroom furniture.

CLASS 70.

CARPETS, TAPESTRIES AND FABRICS FOR UPHOLSTERY.

Baldwin Brothers & Company, 435 5th Ave., New York.
Illuminated leather, hand tooled.

Farr & Bailey Manufacturing Company, Camden, New Jersey.
Floor linoleum, plain and decorative burlaps for walls and ceilings.

Hazzard, R. T., & Company, 814 Pine St., New York.
Permanent decorations in burlaps.

Northwestern Grass Twine Company, St. Paul, Minnesota.
American matting.

Richter Manufacturing Company, Tenafly, New Jersey.
Burlaps.

Sloan, William D., New York.
Carpets and tapestries.

Taft, Joseph H., 41 East 20th St., New York.
Upholstery of jute, leather and embroidery.

Wheeler, Mrs. Candace, 115 E. 23rd St., New York.
Decorative hangings.

CLASS 71.

UPHOLSTERERS' DECORATIONS.

Annin & Company, 99 Fulton St., New York.
Flags, etc.

Lawrence, Stephen Brainard, 291 5th Ave., New York.
Decorations for public buildings.

Singer Manufacturing Company, Broadway, New York.
Embroidered bed covering and hangings.

Stewart Hartshorn Company, East Newark, New Jersey.
Self-acting window shade rollers.

Taft, Joseph H., 41 East 20th St., New York.
Upholsterers' decorations.

Tiffany Glass & Decorating Company, 333 Fourth Ave., New York.—Decorative hangings.

CLASS 72.

CERAMICS.

Adams, Miss Eva E., 2251 Kenmore Ave., Chicago.
Decorated china.

American Clay Working Machine Company, Bucyrus, Ohio.
Auger and sand mould brick machines, brick cutter, brick repress, dies, clay convoy.

American Encaustic Tile Company, 1123 Broadway, New York.—American mosaic and encaustic tile.

Amespaugh, Miss Vivian, 569 Bryan St., Dallas, Texas.
Decorated china.

Art Department of Newcomb College, E. Woodward, Director.
New Orleans, Louisiana.—Decorated china.

Asbnry, Leonore, Cincinnati, Ohio.
Pottery designs.

Atlan Club, 1741 York Place, Chicago.
Decorated china.

Aulich, F. B., Chicago.
Decorated china.

Baisley, Mrs. Frank, 100 Rose St., Brooklyn, New York.
Decorated china.

Baker, Constance A., Cincinnati, Ohio.
Pottery designs.

Beach, Martha Edwards, 469 Fairfield Ave., Bridgeport, Connecticut.—Decorated china.

Beebe, Miss Grace F., 2 Park Square, Boston, Massachusetts.
Decorated china.

Bischoff, Franz A., Detroit, Michigan.
Decorated china.

Boyd, Miss Myra, Penn. Ave. near Lang St., Pittsburg, Pennsylvania.—Decorated china.

Browning, Miss Elsie E., 4613 Filmore St., Pittsburg, Pennsylvania.—Decorated china.

Burrows, Miss M. E., 142 West 125th St., New York.
Decorated china.

Candler, Miss Mariam L., 6 Adams Ave., W. Detroit, Michigan.—Decorated china.

Chaussegros, Dr. Clement, Bridgeport, Connecticut, and Paris, France.—Decorated china.

Cherry, Mrs. K. E., 2302 S. Jefferson Ave., St. Louis, Missouri.
Decorated china.

Cole, Miss Lillie E., 3824 Ellis Ave., Chicago.
Decorated china.

Columbia Encaustic Tile Company, Anderson, Indiana.
Mosaic tile.

Cowen, Louise, New York.
Decorated china.

Coyne, Sally E., Cincinnati, Ohio.
Pottery designs.

Crane, Mrs. Anna B., 11 Woodlawn Park, Chicago.
Decorated china.

Crook, Russell G., Boston, Massachusetts.
Jungle Book tiles.

Cross, Mrs. Nellie A., 6525 Woodlawn Ave., Chicago.
Decorated china.

Culp, Mrs. S. V., 219 Post St., San Francisco, California.
Over glaze decoration on china.

Daly, Matt. A., Cincinnati, Ohio.
Pottery designs.

Damon, Miss A. L., Mill Hill Ave., Bridgeport, Connecticut.
Decorated china.

Dedham Pottery, Dedham, Masachusetts.
Decorated china.

Dexter, Miss M. C., 96 5th Ave., New York.
Decorated china.

Dibble, Miss Mabel C., 6235 Monroe Ave., Chicago.
Decorated china.

Diers, E. G., Cincinnati, Ohio.
Pottery designs.

Deremus, Mrs. Carolyn B., 77 West Ave., Bridgeport, Connecticut.—Decorated china.

Fairbanks, Ella A., 15 Wellington St., Boston, Massachusetts.
Decorated china.

Fechheimer, Rese, Cincinnati, Ohio.
Pottery designs.

Felton, Edith R., Cincinnati, Ohio.
Pottery designs.

Ferris, Miss Ida, Fostoria, Ohio.
Decorated china.

Field, Mrs. Charlotte E., 523 Throop Ave., Brooklyn, New York.—Decorated china.

Frackelton, Mrs. S. S., 695 Cass St., Milwaukee, Wisconsin.
Decorated gray faience.

Frazee, Mrs. A. A., 4049 Indiana Ave., Chicago.
Decorated china.

Fry, Mrs. Marshall, 36 West 24th St., New York.
Decorated china.

Fry, Marshall T., Jr., 36 West 24th St., New York.
Decorated china.

Girard, C. C., & Cutler, M., 23 East 31st St., New York.
Artistic pottery.

Gordon, Mrs. Joseph H., 236 Dithridge St., Pittsburg, Pennsylvania.—Decorated china.

Grueby Faience Company, 164 Devonshire St., Boston, Massachusetts.—Works of faience.

Grueby, H., Ashmont, Massachusetts.
Enamels and kiln burner.

Hammond, Mrs. Ida Story, Lake City, Minnesota.
Decorated china.

Hanson, Jennie E., 58 Prince St., New Haven, Connecticut.
Decorated china.

Harrison, Mrs L. T., 6 Adams Ave., Detroit, Michigan.
Decorated china.

Healey, The Misses M. & E., Washington, D. C.
Decorated china.

Holzer, Mrs. Philip, 1071 Iranistan Ave., Bridgeport, Connecticut.—Decorated china.

Horloecher, Miss Leta, 28 East 23rd St., New York.
Decorated china.

Humphrey, Mrs. Edward L., 1741 York Place, Chicago.
Decorated china.

Hurd, Harriet B., 304 Golden Hill, Bridgeport, Connecticut.
Porcelain miniature.

Hurley, E. T., Cincinnati, Ohio.
Designs for pottery.

Irelan, Mrs. William, Jr., Roblin Pottery, San Francisco, California.—Pottery.

Johnson, Miss Ida A., 193 St. James Place, Brooklyn, New York.—Decorated china.

Keeler, Mrs. Charles, Paterson, New Jersey.
Decorated china.

Keenan, Sophie Gaskill, 5550 Hays St., E. E., Pittsburg, Pennsylvania.—Ceramic ivory miniature.

Kendrick, George P., Brookline, Massachusetts.
Designs in pottery.

Laurence, Sturgis, Cincinnati, Ohio.
Designs for pottery.

Lavalle, John, Boston, Massachusetts.
Moorish tiles designs.

Lawson, Mrs. Adele V., 110 53rd St., Chicago.
Decorated china.

Leonard, Anna B., 28 E. 23rd St., New York.
Decorated china.

Leonard, Genevieve, 606 W. 114th St., New York.
Decorated china.

Leonard, Mrs. Harriet N., 6 Adams Ave., W. Detroit, Michigan.—Decorated china.

Lindeman, Clara C., Cincinnati, Ohio.
Designs for pottery.

Long, Mrs. Marion W., 5338 Washington Ave., Chicago.
Decorated china.

McCreery, R. M., Marshall Field Building, Chicago.
Decorated china.

McDonald, W. P., Cincinnati, Ohio.
Designs for pottery.

McIntyre, Mrs. Anna T., 41 Pittsburg St., Greensburg, Pennsylvania.—Decorated china.

McLaughlin, Miss M. Louise, 2558 Eden Ave., Mt. Auburn, Cincinnati, Ohio.—Decorated china.

McLean, Mrs. Howard A., Colonial Building, West 66th St., New York.—Decorated china.

McMaster, Miss Mary, 125 McDougal Ave., Detroit, Michigan.
Decorated china.

Marquard, Francis X., 206 W. 128th St., New York.
Decorated china.

Mason, Miss Elizabeth, 1672 Broadway, New York City.
Decorated china.

Mason, Miss M. M., 1672 Broadway, New York City.
Decorated china.

Mayhew, Mrs. Julia H., 14 Wellington St., Boston, Massachusetts.—Decorated china.

Montfort, Miss Helen E., 142 West 125th St., New York.
Decorated china.

Mooreland, Mrs. W. C., Jr., 402 Madison St., Brooklyn, New York.—Decorated china.

Morgan, Mrs. Ada White, 1326 Vine Place, Minneapolis, Minnesota.—Decorated china.

Nasmyth, Mrs. Percy, 387 Baker St., Detroit, Michigan.
Decorated china.

National League of Mineral Painters, 402 Madison St., Brooklyn, New York.—Decorated china.

Neal, Fanny, 355 W. Main St., Waterbury, Connecticut.
Decorated china.

Neal, Mary Alley, 1435 Broadway, New York.
Decorated china.

Nourse, Mary, Cincinnati, Ohio.
Designs for pottery.

Ohr, George E., Biloxi Pottery, Biloxi, Mississippi.
Decorated china.

Olcan, Felix, Zanesville, Ohio.
Design in tile of American Encaustic Tile Company.

Osbon, Mrs. E. A., 85th St. and Madison Ave., New York.
Decorated china.

Osgood, Mrs. Worth, 402 Madison St., Brooklyn, New York.
Decorated china.

Overly, Laura B., 504 Pennsylvania Ave., Pittsburg, Pennsylvania.—Decorated china.

Paist, Mrs. H. B., 608 Nicollet Ave., Minneapolis, Minnesota.
Decorated china.

Patton, Miss Lena B., 439 Lafayette Ave., Detroit, Michigan.
Decorated china.

Peck, Miss Grace H., 3848 Elmwood Place, Chicago.
Decorated china.

Perley, Mrs. M. E., 219 Post St., San Francisco, California.
Overglaze decoration.

Phelps, Miss Pearle Wanita, 1281 Bergen St., Brooklyn, New York.—Decorated china.

Phillips, Mrs. L. Vance, 36 W. 24th St., New York.
Figure and portrait painting on china.

Phillips, Miss Mary A., 4245 Indiana Ave., Chicago.
Decorated china.

Pierce, Miss E. M., 36 West 125th St., New York.
Decorated china.

Post, Miss Cornelia S., Jersey City, New Jersey.
Decorated china.

Prince, Mrs. M. F., 55 Bay 20th St., Bath Beach, New York.
Decorated china.

Reed, Geneva, Cincinnati, Ohio.
Designs for pottery.

Robineau, Adelaide Alsop, 114 E. 23d St., New York.
Decorated china and miniature.

Rookwood Pottery Company, Cincinnati, Ohio.
Under glaze decorated faience.

Rothenbusch, F., Cincinnati, Ohio.
Designs for pottery.

Rowell, Mrs. Fanny, 95 Fifth Ave., New York.
Decorated china.

Sax, Sara, Cincinnati, Ohio.
Designs for pottery.

Schmidt, Charles, Cincinnati, Ohio.
Designs for pottery.

Schon, A. D., Cincinnati, Ohio.
Designs for pottery.

Sessions, Mrs. F. M., 228 54th Place, Chicago.
Decorated china.

Sharadui, H. W., 121 N. 6th St., Reading, Pennsylvania.
Decorated china.

Shirayamadani, Kataro, Cincinnati, Ohio.
Designs for pottery.

Simmons, Harry E., 71 Murray St., New York.
Decorated china.

Sprague, Amelia B., Cincinnati, Ohio.
Designs for pottery.

Steinie, Carrie, Cincinnati, Ohio.
Designs for pottery.

Stewart, Mrs. Leroy F., 3400 Forest Ave., Chicago.
Decorated china.

Stewart, Mrs. Henry P., 77 Hamilton Ave., White Plains, New York.—Decorated china.

Stiele, Mrs. Frederick, 3957 Ellis Ave., Chicago.
Decorated china.

Storer, Mrs. Maria Longworth, U. S. Legation, Madrid, Spain.—Art Pottery.

Swift, Mrs. Caroline L., 144 Ruthven St., Roxbury, Massa-chusetts.—Decorated china.

Taylor, Mary A., 37 W. 22d St., New York.
Mineral painting.

Toohey, Sallie, Cincinnati, Ohio.
Designs for pottery.

Topping, Miss Helen M., 4453 Berkeley Ave., Chicago.
Decorated china.

Trenton Potteries Company, Trenton, New Jersey.
Sanitary earthware and vitrified china bath tubs, and water closets, etc.

Trent Tile Company, Trenton, New Jersey.
Floor, wall and ceiling tile.

Valentien, Anna M., Cincinnati, Ohio.
Designs for pottery.

Valentien, A. R., Cincinnati, Ohio.
Designs for pottery.

Van Briggle, Artus, Cincinnati, Ohio.
Designs for pottery.

Volkmar, Charles, Corona, New York.
Decorated pottery.

Wagner, Mrs. M. L., Detroit, Michigan.
Decorated china.

Walter, Mrs. W. C., 5625 Broad St., Pittsburg, Pennsylvania.
Decorated china.

Wareham, J. D., Cincinnati, Ohio.
Designs for pottery.

Wilcox, Mrs. Olive, 1107 N. Senate Ave., Indianapolis, Indiana.—Decorated china.

Willcox, Harriet E., Cincinnati, Ohio.
Designs for pottery.

Young, Grace, Cincinnati, Ohio.
Designs for pottery.

Zeublin, Mrs. Henrietta C., 6052 Kimbark Ave., Chicago.
Decorated china.

Zettle, Josephine E., Cincinnati, Ohio.
Designs for pottery.

CLASS 73.

GLASS AND CRYSTAL.

American Optical Company, Southbridge, Massachusetts.
Optical goods.

Bay State Optical Company, Attleboro, Massachusetts.
Optical goods and machines for manufacturing same.

Chambers, Inskeep & Company, 88-90 Wabash Ave, Chicago.
Ophthalmometer.

Holophane Glass Company, 1 Broadway, New York.
Glass globes.

Hygienic Optical Company, 1147 Broadway, New York.
Optical goods.

King, Julius, Optical Company, 2 Maiden Lane, New York.
Optical goods.

Le Maitre Optical Company, 225 W. 42d St., New York.
Optical goods and machines for manufacturing same.

Long, Adelaide Husted, 96 Fifth Ave., New York.
Glass window.

Lubin, S., Philadelphia, Pennsylvania.
Lenses.

Manhattan Optical Company, New York.
Spectacles.

Neufeld, Emil M., 228 W. 130th St., New York.
Lens grinding machine, etc.

New York Novelty Company, 907 Hancock St., Brooklyn, New York.—Imitations of precious stones.

Pittsburg Plate Glass Company, 62 Vandam St., New York.
Plate glass.

Simmons, John, Company, Centre St., New York.
Optical goods.

Spencer Optical Company, Centre St., New York.
Optical goods.

Tiffany Glass & Decorating Company, 333 Fourth Ave., New York.—Glass mosaic altars and altar furnishings; mausoleums and monuments.

CLASS 74.

APPARATUS AND PROCESSES FOR HEATING AND VENTILATION.

American Radiator Company, Boston, Massachusetts.
Radiators, furnaces, etc.
Paris, 1889, Medal; Chicago, 1893, Medal.

Ashton Valve Company, Boston, Massachusetts.
Valves and registering apparatus.

Barber, A. C., Manufacturing Company, Chicago.
Oil stoves.

Beckwith, P. D., Estate of, Dowagiac, Michigan.
Heating stoves, "Round Oak."

Board of Schools, New York.
Drawings, etc., illustrating the methods of heating and ventilating the public schools of the City of New York.

Clark, George M., & Company, 72-74 Lake St., Chicago.
Gas and gasoline cooking and heating stoves, ranges, etc.

Cortland-Howe Ventilating Stove Company, Cortland, New York.—Stoves.
Chicago, 1893, medal.

Cox, Abram, Stove Company, Philadelphia, Pennsylvania.
Heating and cooking apparatus.

Goodridge, Judson A., Company, New York.
Steam specialties.

Griswold Manufacturing Company, Erie, Pennsylvania.
Kitchen utensils and oil heating stoves.

Hart & Crouse Company, Utica, New York.
Steam and water heating boilers.

Herendeen Manufacturing Company, Geneva, New York.
Water boilers, radiators and valves.

International Heater Company, New York, and Utica, New York.—Heating boilers, stoves, etc.

Kieley & Muler, 13th St., New York.
Valves, cocks and damper regulator.

Magee, Furnace Company, Boston, Massachusetts.
Cooking ranges, water heaters, combination warm air and hot water furnaces. Magee Grand cast iron cooking range, with water front, removable dock ash grate, oven thermometer; wrought iron radiator, brick lined fire pot, revolving grates, convertible into warm air furnace; cast iron water heater, boiler section in one piece; large fire surface and combustion chamber, vertical circulation.
Philadelphia, 1876, medal; Chicago, 1893, medal.

Mahoney Manufacturing Company, Troy, New York.
Heating boilers.

Michigan Stove Works, Detroit, Michigan.
Heating stoves and ranges.

Model Heating Company, Philadelphia, Pennsylvania.
Cast iron sectional boilers, for low pressure steam and hot water heating.

Mott, The J. L., Iron Works, New York.
Steam boilers, hot water heaters, steam and hot water radiators.

New York Blower Company, Bucyrus, Ohio, and 39-41 Cortlandt St., New York.—Heating and ventilating engines; blowers, fans, heaters.

Philadelphia Hardware & Malleable Iron Works, 9th and Jefferson Sts., Philadelphia, Pennsylvania.—Radiators, registers and malleable iron fittings.

Phillips & Clark Stove Company, New York.
Range.

Powers Regulator Company, Chicago.
Automatic temperature regulating apparatus.

Rochester Radiator Company, Rochester, New York.
Economical heating apparatus.

Scaife, William B., & Sons, Pittsburg, Pennsylvania.
Ranges, boilers and expansion tanks.

Smith & Anthony, 48 Union St., Boston, Massachusetts.
Range.

Stevenson, Thomas Roberts, & Company, Philadelphia, Pennsylvania.—Stoves and ranges.

Troy Nickel Works, Albany, New York.
Stove hardware.

Tuttle & Bailey Manufacturing Company, 83 Beekman St., New York City.—Registers and ventilators.

Webster, Warren & Company, Camden, New Jersey.
Vacuum system of heating.

Wade, Rufus R., State House, Boston, Massachusetts.
Plans for heating public buildings.

CLASS 75.

APPARATUS AND METHODS, NOT ELECTRICAL, FOR LIGHTING.

Adams, Thomas, Jr., Box 225, Brooklyn, New York.
Automatic gas lighters.

Cassidy & Son Manufacturing Company, 133 West 23d St.,
New York City.—Gas and electric fixtures.

Holophane Glass Company, 1 Broadway, New York.
Globes, reflectors, shades, etc.

Kitson, Arthur, Philadelphia, Pennsylvania.
Arc lamps giving an incandescent light from sprayed oil.

Oil Vapour Incandescent Light Company, 62 Wall St., New
York.—Hydro-carbon incandescent lights.

Tiffany Glass & Decorating Company, 333 Fourth Ave., New
York.—Electric fixtures, favrile glass vases, table ware, globes and shades.

GROUP XIII.

THREADS AND YARNS, FABRICS, GARMENTS.

JOHN H. McGIBBONS, Director of Exploitation, in charge.

CLASS 76.

MATERIALS AND PROCESSES FOR SPINNING AND ROPE-MAKING.

Deering Harvester Company, Chicago.
Sisal and manila binding twine.

McCormick Harvester Machine Company, Chicago.
Binding twine for harvesting machines.

CLASS 78.

EQUIPMENT AND PROCESSES USED IN BLEACHING, DYEING, PRINTING AND FINISHING TEXTILES IN THEIR VARIOUS STAGES.

Troy Laundry Machinery Company, Chicago, Illinois.
Photographs; samples of work done on machinery.

CLASS 79.

EQUIPMENT AND PROCESSES USED IN SEWING AND MAKING WEARING APPAREL.

Boston Blacking Company, Boston, Massachusetts.
Blackings, dressings, inks, cement, stains and wax for boot and shoe manufacture.

Fenwick, A. D., Machine Company, Boston, Massachusetts.
Collar and cuff turning and pasting machine.

Flagg Manufacturing Company, 110 Lincoln St., Boston, Massachusetts.—Julian sole rounder.

Globe Buffer Company, Moston, Massachusetts.
Globe scourer, Webster buffer, Webster cleaner, Columbus finisher, used in making shoes, etc.

Heibendahl, Miss E., 265 6th Ave., New York.
Forms for displaying garments.

International Button-Hole Sewing Machine Company, Boston, Massachusetts.—Sewing machines for making buttonholes.

McDowell Garment Drafting Machine Company, New York.
Machines for drafting garments and patterns; system of dress cutting. Fashion journals.
Chicago, 1893, medal.

Miller, O. A., Brockton, Massachusetts.
Boot and shoe treeing and ironing machine.

Naumkeag Buffing Machine Association, Beverly, Massachusetts.—Naumkeag pneumatic buffer and emery pads, used in making shoes.

New Home Sewing Machine Company, New York.
Sewing machines for family use.

Norwich Nickel & Brass Company, Norwich, Connecticut.
Stands and hangers for displaying goods.

Rubens, Leon F., New York.
Forms for displaying silks and fabrics.

Schmidt, Gustav, 438 Canal St., New York City.
Wax figures.

Singer Manufacturing Company, The, 149 Broadway, New York.—Sewing machines for family use and for manufacturing purposes.

Union Twin Edge Setter Company, 110 Lincoln St., Boston.
Union twin-edge setter, used in making shoes.

United Shoe Machinery Company, 111 Lincoln St., Boston.
Shoe machinery in operation; making Goodyear welt and turn shoes.

Wheeler & Wilson Manufacturing Company, Bridgeport, Connecticut.—Sewing machines for general and special uses, with accessories and samples of work.

White Sewing Machine Company, Cleveland, Ohio.
Sewing machines for family use.

CLASS 80.

THREADS AND FABRICS OF COTTON.

Aberfoyle Manufacturing Company, Chester, Pennsylvania.
Fabrics in woven colors and designs; mercerized cotton goods, novelties in fancy goods, flannels. Selling agents, Galey & Lord, New York.

American Hosiery Company, New Britain, Connecticut.
Underwear and hosiery for men, women and children.

American Thread Company, New York.
Cotton thread.

Arlington Mills, Lawrence, Massachusetts.
Cotton yarns; fine combed and mercerized yarns.

Galey & Lord, New York City.
Fabrics of cotton and cotton wool.

Hirsch, Joseph, & Sons, New York City.
Cotton linings.

Lorraine Manufacturing Company, Pawtucket, Rhode Island.
Dress goods (worsted and cotton).

Missouri Pacific Railway, St. Louis, Missouri.
Cotton scenes (photograph).

New England Cotton Manufacturers' Association, Boston, Massachusetts.—Publications and photographs of the cotton industry in the United States.

Pelzer Mills, Pelzer, South Carolina.
Brown cotton sheetings, drills for export and other cotton fabrics.

Philadelphia Textile Company, Philadelphia, Pennsylvania.
Publications, photographs and specimens of work.

Ponemah Mills, Taftville, Connecticut.
Plain and fancy dress goods.

Potomska Mills, New Bedford, Massachusetts.
Fabrics of cotton.

Schwab & Wolf, New York City.
Novelty cotton draperies.

Wamsutta Mills, New Bedford, Massachusetts.
Fabrics of cotton; cotton goods.
Paris, 1878, gold medal; Chicago, 1893, medal.

Whitman, Clarence, & Company, 39-41 Leonard St., New York City.—White cotton dress goods, lace curtains, bedspreads.

CLASS 81.

THREADS AND FABRICS OF FLAX, HEMP, ETC.—CORDAGE.

Aultman, Miller & Company, Akron, Ohio.
Binding twine.

Columbia Cordage Company, Auburn, New York.
Binding twine and cordage of sisal and manila hemp.

Northwestern Grass Twine Company, St. Paul, Minnesota.
Binding twine, mats, carpet linings.

Richter Manufacturing Company, Tenafly, New Jersey.
Burlap, buckram, decorative stuffs.

CLASS 82.

YARNS AND FABRICS OF WOOL.

Aberfoyle Manufacturing Company, Chester, Pennsylvania.
Flannels and fabrics of wool.

American Hosiery Company, New Britain, Connecticut.
Underwear and hosiery for men, women and children.

Annin & Company, 99 Fulton St., New York City.
Bunting.

Arlington Mills, Boston, Massachusetts.
Worsted yarns, tops, and dress goods for women and children.

Ballardvale Mills, Ballardvale, Massachusetts.
Flannels, bedspreads.

Botany Worsted Mills, Passaic, New Jersey.
All wool dress goods.

Castle Braid Company, Brooklyn, New York.
Braids.

Hockanum Company, Rockville, Connecticut.
Woolen and worsted goods.

Lorraine Manufacturing Company, Pawtucket, Rhode Island.
Fabrics of wool.

Muhlhauser, The F., Company, Cleveland, Ohio.
Wool fabrics.

National Association of Wool Manufacturers, Boston, Massachusetts.—Publications and photographs.

New England Company, The, Rockville, Connecticut.
Woolens, worsteds and coatings.

Peace Dale Manufacturing Company, Peace Dale, Rhode Island.—Worsted and woolen goods, worsted serges.

Slater Woolen Company, Webster, Massachusetts.
Broadcloths.

Springville Manufacturing Company, Rockville, Connecticut.
Woolens, worsteds and coatings.

Standish Worsted Company, New York City.
Woolen goods.

United States Bunting Company, Lowell, Massachusetts.
Bunting.

CLASS 83.

SILK AND FABRICS OF SILK.

Anderson Brothers, Paterson, New Jersey.
Silk fabrics.

Annin & Company, 99 Fulton St., New York City.
Silk flags and bunting.

Arlington Mills, Lawrence, Massachusetts.
Silks.

Bridgeport Silk Company, Bridgeport, Connecticut.
Silks and fancy goods.

Cardinal & Becker, 25 Green St., New York, Paterson, New Jersey.—Silk linings.

Castle Braid Company, Brooklyn, New York.
Braids.

Clifton Silk Mills, Paterson, New Jersey.
Dress silks.

Doherty & Wadsworth, 138-140 Spring St., Paterson, New Jersey.—Dress silks.

Empire Silk Works, Paterson, New Jersey.
Dress silks and tie silks.

Gotham Silk Mills, Newwitter & Migel, Proprietors.
Special designs in silks.

Johnson, Cowdin & Company, New York City.
Ribbons.

Liberty Silk Company, 469 Broome St., New York City.
Dress silk.

Paterson Ribbon Company, Paterson, New Jersey, 85 Green St., New York City.—Ribbons

Pelgram & Meyer, 113-117 Spring St., New York City.
Dress silks and ribbons.

Richardson Silk Company, Belding, Michigan.
Sewing and embroidery silk, machine twist, silk and mohair braids.

Silk Association of America, New York City.
Silk and silk fabrics.

Smith & Kaufman, Paterson, New Jersey.
Ribbons.

Stearns, John N., & Company, 68 Greene St., New York City.
Dress silk.

Stetson, John B., Company, Philadelphia, Pennsylvania.
Silk galloons for bands and bindings for hats.

CLASS 84.

LACES, EMBROIDERIES, AND TRIMMINGS.

Adams, Fanny R., 302 Adelphi St., Brooklyn, Nek York.
Embroidered linen.

Bankey, Mrs. Caledonia J., 52 Washington St., N. Rochester,
New York.—Embroidered linen.

Brady, Miss Florence H., 607 Macon St., Brooklyn, New York.
Embroidered linen.

Carter, Miss Sybl, New York City.
Indian hand-made lace.

Decorative Art Society of Baltimore, Maryland.
Embroidered linen.

Emerson, Mrs. Harriet O., Brookline, Massachusetts.
Embroidered linen.

Foster, Mrs. A. W., 201 West 117th St., New York City.
Embroidered linen.

Havens, Mrs. J. H., 107 Greene Ave., Brooklyn, New York.
Embroidered linen.

MacKane, Mrs. H. W., Plainfield, New Jersey.
Embroidered linen.

Mengle, Mrs. J. C., 122 West 8th St., Renovo, Pennsylvania.
Embroidered linen.

New Home Sewing Machine Company, New York City.
Machine needlework and embroidery.

Nichols, Miss E. B., 312 West 22d St., New York.
Embroidered linen.

Nolan, Miss H. Jennings, 189 Madison Ave., Albany, New York.—Embroidered linen.

Obery, Mrs. Christine M., Portland, Oregon.
Embroidered linen.

Singer Manufacturing Company, 140 Broadway, New York City.—Machine needlework, embroideries and tapestries.

Stephenson, Miss C. J., Red Bank, New Jersey.
Embroidered linen.

Taft, Joseph H., 41 E. 20th St., New York City.
Embroidery and applique curtains.

Taylor, Mrs. E. Coxhead, 505 Sixth Ave., New York City.
Embroidered linen.

Van Cley, Mrs. J. Charles, Ellenville, Ulster Co., New York.
Embroidered linen.

Waring, Mrs. C. E. Scott, Saratoga Springs, New York.
Embroidered linen.

Wheeler, Mrs. Candace, New York City.
Needlework, embroidery and draperies.

Wheeler & Wilson Manufacturing Company, Bridgeport, Connecticut.—Machine needlework and embroideries.

White Sewing Machine Company, Cleveland, Ohio.
Machine needlework and embroidery.

Wilson, Mrs. Lilian Barton, 128 Marcy Ave., Brooklyn, New York.—Embroidered linen.

CLASS 85.

INDUSTRIES PRODUCING WEARING APPAREL FOR MEN, WOMEN AND CHILDREN.

Asch & Jaeckel, New York City.
Manufactured furs and skins.

McDowell Garment Drafting Machine Company, New York.
Machines for drafting garments and patterns; system of dress cutting. Fashion journals.
Chicago, 1893, medal.

Merchant Tailors' National Exchange of the United States of America, New York City.—Clothing to measure for men and women.

CONTRIBUTORS.

Barnwell & Eldridge.—Haberdashery.
Budd & Company, Madison Square, New York.—Haberdashery.
Cammeyer, A. J., 6th Ave. and 20th St., New York.—Shoes.
Dostal, A. R., Olive St. and Broadway, St. Louis, Missouri.—Garments.
Dunlap & Company, Brooklyn, New York.—Hats.
Glasscoe & Company, 52 W. 30th St., New York.—Lady's gown.
Grady, M. E., Company, 109 Main St., Rochester, New York.—Garments.
Jantzen, H., 242 6th Ave., New York.—Shoes.
Kaskel & Kaskel, 20 W. 23d St., New York.—Haberdashery.
McCarthy, M. H. 120 Dearborn St., Chicago.—Flannel suit.
McCormick, 349 5th Ave., New York.—Hats.
McNulty, P. F., 29 W. 34th St., New York.—Shoes.
Matthews, Albert, Champlain Building, Chicago.—Garments.
Merwin, B. R., 425 Fifth Ave., New York.—Garments.
Messenger & Jones, 388 Washington St., Boston.—Golf suit.
Miller, Edward, 260 Fifth Ave., New York.—Hats.
Moore, Olive, Estate, 118 42d St., New York.—Shoes.
Muller, J. G., 240 Fifth Ave., New York.—Lady's hunting suit.
Nelson, Alfred, Company, Ltd., 261 Fifth Ave., New York.—Shooting jacket, etc.
Newell, E. A., 28th St. and 5th Ave., New York.—Haberdashery.
Nickerson, Boston, Massachusetts.—Haberdashery.
Patterson, John, & Company, 2 West 33d St., New York.—Liveries.
Rolff, W. & Son, 274 Bridge St., Brooklyn, New York.—Shoes.
Ryley, Rupert A., 256 Fifth Ave., New York.—Garments.
Schaub Brothers, 80 Monroe Street, Chicago.—Garments.

Schaub Brothers, Pioneer Press Building, St. Paul, Minnesota. Automobile suit.

Schmidt, Gustave, 434 Canal Street, New York.—Forms for trying on garments.

Schmidt, H. A., 7th and Olive Sts., St. Louis, Missouri.—Frock suit.

Somers, Frank D., South Park, Boston, Mass.—Garments.

Tenny, New York.—Shoes.

Tuttle, H. H., & Company, Boston, Massachusetts.—Ballroom slippers.

Twyeffort, E., 381 Fifth Avenue, New York.—Hunting suit.

Weiss, Jules C., & Company, 23 West 23d St., New York.—Full dress suit.

White, Howard, & Company, Madison Avenue, New York.—Garments.

Youmans, Broadway and 25th Street, New York.—Hats.

Mitchell, The John J., Company, 103 Fifth Ave., New York City.—Fashions for men and women.

Revillon Freres, New York City.
Furs and fur garments.

Warnock Uniform Company, 19 and 21 W. 31st St., New York City.—Uniform caps.

CLASS 86.

VARIOUS INDUSTRIES CONNECTED WITH CLOTHING.

American & Continental Shoe and Leather Syndicate, 11 Broadway, New York.—Men's and women's shoes, boots and slippers.

American Hosiery Company, New Britain, Connecticut.
Underwear and hosiery for men, women, and children.

Auerbach, Louis, 836-838 Broadway, New York.
Men's fine neckwear.

Banister, James A., Company, Newark, New Jersey.
Fine boots, shoes, and slippers for men and boys.

Bliss, L. C., & Co., 101-113 Summer St., Boston, Massachusetts;
Factory, Whitman, Mass.—The "Regal Shoe," for men.

Budd, Samuel, New York.
Shirts and neckties.

Canfield Rubber Company, Bridgeport, Connecticut.
Dress shields.

Childs-Chamberlain Company, Newport, New Hampshire.
Shoes.

Cluett, Peabody & Company, Troy, New York.
"Monarch" fancy shirts made from fabrics produced by Aberfoyle Manufacturing Company, Chester, Pennsylvania.

Faunce & Spinney, Lynn, Massachusetts.
Ladies' Goodyear welts, Goodyear turns, and McKay sewed boots and shoes.

Ford, Charles P., Company, Rochester, New York.
Ladies', misses', and children's fine shoes.

Gale Shoe Manufacturing Company, Haverhill, Massachusetts.
Ladies' McKay boots and slippers.

Gray, Vincent, New Orleans, Louisiana.
Fans.

Hanan, John, & Sons, Brooklyn, New York.
Men's and women's fine shoes.

Herrick, G. W., & Company, Lynn, Massachusetts.
Ladies', misses' and children's fine shoes.

Kayser, Julius, New York City.
Gloves, mitts, and underwear.

Keith, George E., Company, Campello, Massachusetts.
Men's fine shoes.

Laird, Schober & Company, Philadelphia, Pennsylvania.
Ladies', misses', and children's fine shoes.

Meyers, Louis, & Sons, 552-554 Broadway, New York.
Gloves and glove leather.

Milford Shoe Company, Milford, Massachusetts.
Men's machine sewed and Goodyear welt shoes.

Moore, Oliver, 118 W. 42d St., New York City.
Boots.

New England Shoe & Leather Manufacturers' Association,
Boston, Massachusetts.—Publications and photographs.

Noyes, Read & Company, Haverhill, Massachusetts.
Ladies' McKay sewed and turned boots and shoes.

Pasadena Ostrich Farm, Pasadena, California.
Ostrich feathers.

Perkins, Linscott & Company, Rochester, New Hampshire.
Men's machine sewed and Goodyear welt shoes.

Roelofs, Henry H., & Company, Philadelphia, Pennsylvania.
Soft and stiff fine fur felt hats for men and women.

Stetson, John B., Company, Philadelphia, Pennsylvania.
Men's soft and stiff fine fur felt hats, ladies' fine fur felt hats, silk and cassimere dress hats.

Torrey, Curtis & Tyrrell, North Weymouth, Massachusetts.
Men's fine shoes.

Wichert & Gardiner, Brooklyn, New York.
Ladies' turned and Goodyear welt boots and shoes.

GROUP XIV.

CHEMICAL INDUSTRIES.

ALEXANDER S. CAPEHART, DIRECTOR.

CLASS 87.

CHEMICAL AND PHARMACEUTICAL ARTS.

EQUIPMENT, PROCESSES AND PRODUCTS.

American Wood Fire-Proofing Company, Newark, New Jersey.—Non-flammable wood.

Arable Cement Company, New York.
Tableting cement used by printers and bookbinders.

Armour & Company, Chicago.
Inedible animal products, bone and its products, etc.

Armour Packing Company, Kansas City, Missouri.
Inedible animal products, horns, hoofs, bones, fertilizers.

Atlantic Refining Company, Philadelphia, Pennsylvania.
Petroleum and products.

Babbitt, B. T,, 82 Washington St., New York.
Soaps, glycerines, potash and by-products.

Barrett Chemical Company, 344 Bowery, New York.
Roachsault.

Bean-Chamberlain Manufacturing Company, Hudson, Michigan.—Bean whitewashing and coating machine.

Binney & Smith, 257 Pearl St., New York.
Carbon gas blacks, lamp or oil blacks, "Peerless" black.

Blichert, The P. A., Manufacturing Company, 57 Illinois St., Chicago.—Shoe polishes.

Burbank Engraving Company, 55 Olive St., Boston, Massa-chusetts.—Embossing composition.

Cuprigraph Company, The, 108 N. Green St., Chicago.
The sanitary still, producing pure aerated distilled water.

Drevet Manufacturing Company, The, 59 Prince St., New York.—Charles Marchand's medicinal preparations; hydrozone (30 volume solution of H_2O_2), glycozone, eye balsam.
Chicago, 1893, medal.

Foederer, Robert H., Philadelphia, Pennsylvania.
Shoe dressings.

Freck, The Wm., Company, 120 S. Clinton St., Chicago.
Pharmaceutical and chemical machinery and devices used in drug stores, chemists' shops and chemical factories. Specialties: Hand and power tablet, suppository, and triturating machines.

International Chalice Company, 141 Broadway, New York.
Medicinal preparations and rubber cups.

Jaenecke Printing Ink Company, New York.
Black and colored printing inks and bronzes.

Jandus, William, 37 Tilden Ave., Cleveland, Ohio.
Water filters.

Johns, B. B., 36 Boylston St., Boston, Massachusetts.
Daisy brand of stove polish, for use without brush or water.

Lambert Pharmacal Company, 2101 Locust St., St. Louis, Missouri.—Listerine.

Lawrence, W. W., & Company, Pittsburg, Pennsylvania.
Paints for machinery.

Leonard & Ellis, 11 Broadway, New York
Machinery oils.

Matheson, William J., & Company, Ltd., 182-184 Front St., New York.—White lead.

Michigan Carbon Works, Detroit, Michigan.
Gelatines and glues.

Muralo Company, The, New Brighton, New York.
Decorative materials.

Muzzy Brothers, Paterson, New Jersey.
Aquarine cold water paints. Weather-proof and fire-proof. One coat enough; a powder in white or colors; mixes with cold water.

Russia Cement Company, Gloucester, Massachusetts.
Fish glues. Le Page's liquid glue for general use. Le Page's photo-engraving glue for engraving on zinc and copper; samples of plates.

Seabury & Johnson, 59-61 Maiden Lane, New York.
Medicinal and surgical plasters, surgical dressings, specialties.

Solar Refining Company, Lima, Ohio.
Petroleum and products.

Standard Oil Company, 26 Broadway, New York.
Petroleum and by-products.

Swift & Company, Chicago.
Inedible animal products.

Thomsen Chemical Company, Baltimore, Maryland.
General chemicals.

Valentine & Company, 57 Broadway, New York.
Coach and car varnishes and colors. Japan gold size; Crown coach Japan, permanent wood filling, superfine blacks, rough stuff. Pure colors in oil. Artists' oil colors in tubes. Enamels.

Warner, William R., & Company, Philadelphia, Pennsylvania.
Pills and pharmaceutical products.

CLASS 89.

LEATHER AND SKINS.

RAW MATERIALS, EQUIPMENT, PROCESSES AND PRODUCTS.

Blatz, F. J., & Brothers, Elizabeth, New Jersey.
Glazed kid from goat, calf, and sheep.

Burk Brothers, 409 Arch St., Philadelphia, Pennsylvania.
Glazed kids.

Dungan, Hood & Company, Incorporated, Philadelphia, Pennsylvania.—Glazed kids.

Foederer, Robert H., Philadelphia, Pennsylvania.
Tanned leather from goat and calf skins. Glazed kid of chrome tannage known as vici kid is an example of the successful development of the new tannage. The leather is mellow, strong in grain and fibre, full and rich in color and gloss, the lustre being exceedingly permanent.
Chicago, 1893, medal.

Green, Calvin, & Son, Saltillo and Lewiston, Pennsylvania.
North American and Saltillo, Texas, oak sole leather. Texas oak sole, cropped sides and bends; a tannage producing solidity and durability.
Philadelphia, 1876, medal; Paris, 1878, medal; Chicago, 1893, medal.

Hollinger, Amos, Lancaster, Pennsylvania.
Finished oak harness leather in backs.

Howard, J. W. & A. P., & Company, Corry, Pennsylvania.
Hemlock sole leather.

Leas & McVitty, 307 N. 3rd St., Philadelphia, Pennsylvania.
Oak leather and cut soles. Oak belting butts, backs, and bends, tannage producing strong fibre, fine grain and finish. Texas oak sole, cropped sides and bends, a tannage producing solidity and durability. Texas cut soles, uniform in quality and grading.
Philadelphia, 1876, medal; Paris, 1878, medal; Chicago, 1893, medal.

Salem Tanning Company, Salem, Virginia.
Chestnut oak bark leather in rough and prepared for use.

Scherer, Oscar, & Brother, 29 Spruce St., New York.
Glazed fancy colors and black chrome kids.

Schieren, Charles A., & Company, 45-51 Ferry St., New York.
Oak tanned leather.

Slocomb, F. F., & Company, Wilmington, Delaware.
Leather staking machine. Leather stamping machine.

Vacuum Oil Company, Rochester, New York.
Leather oils and greases.

Wagner Leather Company (California Commission), Stockton, California.—Finished hides; pelts and skins.

Woodside Patent Calf Manufacturing Company, The, Newark, New Jersey.—Patent and enamel leather.

CLASS 90.

PERFUMERY.

RAW MATERIALS, EQUIPMENT, PROCESSES AND PRODUCTS.

Bremer, A. R., Company, 21 La Salle St., Chicago.
Coke dandruff cure.

Colgate & Company, 55 Johns St., New York.
Perfumery, toilet soaps, and accessories.

Cream of Lemon Company (California Commission), Los Angeles, California.—Cream of lemon.

Hotchkiss, The H. & G., International Prize Medal Essential Oil Company, Lyons, New York.—American essential oils.

Kochs, Theo. A., Company, 158 Wells St., Chicago.
Barbers' chairs.

Lorenz, George, Toledo, Ohio.
Perfumery and toilet accessories.

Reiger, Paul, & Company (California Commission), San Francisco, California.—Flavoring extracts and perfumes.

Webb, Mrs. L. T. (California Commission), Los Angeles, California.—Toilet soaps.

Williams, The J. B., Company, Glastonbury, Connecticut.
Shaving and toilet soaps.
Philadelphia, 1876, medal; Chicago, 1893, medal.

CLASS 91.

TOBACCO AND MATCHES.

EQUIPMENT, PROCESSES AND PRODUCTS.

Baltimore Leaf Tobacco Association, Baltimore, Maryland.
Leaf tobacco.

Bimberg, Joseph, Elmira, New York.
Leaf tobacco.

Blumenstiel, Levi & Company, New York.
Porto Rican tobacco.

Bohls, H., & Company (California Commission), San Francisco, California.—Cured tobacco and manufactured tobacco.

Brown, Morris, 335 Broadway, New York.
Patented cigar box.

Cardwell Machine Company, Richmond, Virginia.
Machinery for manufacturing plug and smoking tobacco and cigarettes.

Cincinnati Leaf Tobacco Warehouse Company, Cincinnati, Ohio.—Tobaccos, "White Burley" for pipe smoking.

Clark, M. H., & Brothers, Clarksville, Tennessee.
Tobaccos.

Clay, Henry, & Bock & Company, Limited, 32 Broadway, New York City.—Clear Havana cigars.

Cullman Brothers, New York.
Tobaccos grown in Ohio, Zimmer, Spanish, and Little Dutch. Wrappers, binders, and fillers grown in Wisconsin and Pennsylvania.

Cunningham, Col. John S., Cunningham, North Carolina.
Tobaccos grown in North Carolina, bright, mahogany and dark.

Cytron, Otto, 202 N. Main St., Los Angeles, California.
Manufactured tobacco, cigar novelties.

Department of Agriculture, U. S. A., Division of Soils, Washington, D. C.—Collective exhibit of leaf tobacco grown in the United States.

Dibrell Brothers, Danville, Virginia.
Bright, mahogany and dark Virginia leaf tobacco.

Florida Havana Company, Quincy, Florida.
Tobacco, Cuban and Sumatra seed, grown in Florida.

Hagan-Dart Tobacco Company, Richmond, Virginia.
Dark export types of Virginia leaf tobacco.

Havana Commercial Company, 32 Broadway, New York.
Cigars.

Hoge, Irwin & Company, Kingston, North Carolina.
Tobacco, bright and mahogany, for export.

Jordan, J. F., Greensboro, North Carolina.
Tobacco, leaf, bright and mahogany, grown in North Carolina.

Littman, Felix, Quincy, Florida.
Sumatra and Cuban tobaccos.

Louisville Leaf Tobacco Exchange, Louisville, Kentucky.
"White Burley" and dark tobacco grown in Kentucky.

Manhattan Brass Company, New York.
Brass castings and railings for tobacco manufacturing machinery.

Miller, DuBrul & Peters Manufacturing Company, The, 511 E.
Pearl St., Cincinnati, Ohio.—Machinery for manufacturing cigars and cigarettes; cigarmakers' molds and tools.

Morris, E. K., & Company, Cincinnati, Ohio.
Bar iron and steel for tobacco manufacturing machinery.

Morris, J. B., Foundry Company, Cincinnati, Ohio.
Iron castings for tobacco manufacturing machinery.

Owl Commercial Company, Quincy, Florida.
Tobacco grown in Gadsden County, Florida.

Richmond Gold & Silver Cigarette Company, 44 W. 35th St.,
New York City.—Cigarettes, with wrappers of silver and gold leaf combined with vegetable fibre.

Spiller & Robinson, Ada, Texas.
Cuban seed tobacco grown in Texas.

Strauss, L. L., Richmond, Virginia.
Bright and dark types of Virginia tobacco.

Sutter Brothers, 174-176 Pearl St., New York City.
Cigar wrapper, binder, and filler grades of tobaccos grown in Wisconsin, Ohio, Connecticut, and Pennsylvania.

Texas Tobacco Growers' Association, Houston, Texas.
Texas tobaccos.

United States Tobacco Company, Richmond, Virginia.
Leaf, plug and fine-cut tobacco in process of manufacture.

Veitor, E. K., & Company, Richmond, Virginia.
Light, mahogany and dark tobaccos grown in Virginia.

Wilkins, W. A., Winston, North Carolina.
Bright tobacco grown in North Carolina.

Williamson, T. S., & Company, Danville, Virginia.
Bright, mahogany and dark Virginia leaf tobacco.

GROUP XV.

DIVERSIFIED INDUSTRIES.

M. H. HULBERT, DIRECTOR.

CLASS 92.

STATIONERY.

MACHINERY, PROCESSES AND PRODUCTS.

American Book Company, New York.
Copy books.

American Lead Pencil Company, New York.
Lead pencils.

Blair Fountain Pen Company, 163 Broadway, New York.
Fountain pens and fluid pencils having a year's supply of ink in the penholder. Ink of all colors and for copying.

Caw's Pen and Ink Company, 168 Broadway, New York.
Fountain pens and writing inks.

Crane Brothers, Westfield, Massachusetts.
Linen ledger and record papers.

Dayton, E. W., Madison Avenue, New York.
Stationery.

Deck, A. B., New York.
Rotary pencil sharpener.

Freed, K. P., New York.
Pens and rubber stamps.

Hansen & Company, Philadelphia, Pennsylvania.
Pin holders.

Hinde & Dauch, 12 White Street, New York.
Climan bottle wrappers, made of sized paper.

Inman American Box Machine Company, Amsterdam, New York.—Paper box manufacturing machinery.

Neostyle Envelope Company, New York.
Envelope machine.

Pomeroy Brothers, East Newark, New Jersey.
Inks, mucilage, sealing wax, rubber stamps, etc.

Smith, R. H., Manufacturing Company, Springfield, Massa-chusetts.—Easy sign markers and office stamps.

Tiffany & Company, Union Square, New York.
Stationery. Steel, copper plate and intaglio printing.

Union Bag and Paper Company, Chicago, Illinois.
Paper bags.

United States Playing Card Company, Cincinnati, Ohio.
Playing cards.

Waterman, L. E., Company, New York.
Fountain pens.

Weston Paper & Manufacturing Company, Dayton, Ohio.
Paper specialties and stationery.

Whiting Paper Company, Holyoke, Massachusetts, and New York.—Writing papers, envelopes and novelties.

CLASS 93.

CUTLERY.

EQUIPMENT, PROCESSES AND PRODUCTS.

American Shearer Manufacturing Company, Nashua, New Hampshire.—Hair clippers.

Baldwin, Charles L., 17 Charlotte Street, Worcester, Massa-chusetts.—Razors and clippers.

Brown & Sharpe, Providence, Rhode Island.
Hair clippers.

Gem Cutlery Company, 670 Hudson Street, New York.
Gem safety razor.

Jordan, A. J., St. Louis, Missouri.
Safety razors.

Peck & Snyder, 126 Nassau Street, New York.
Ice and roller skates.

Tiffany & Company, Union Square, New York.
Silversmiths' small ware.

CLASS 94.

SILVERSMITHS' AND GOLDSMITHS' WARE.

APPLIANCES, PROCESSES AND PRODUCTS.

Gorham Manufacturing Company, Broadway, and 19th Street, New York.—Silver and goldsmiths' ware.
Philadelphia, 1876, gold medal; Paris, 1889, gold medal; Chicago, 1893, forty-nine awards.

Hanaweber, L., New York.
Chased work.

Regensburg, O. H., 260 Dearborn Avenue, Chicago, Illinois.
Gold and silversmiths' work in aluminium.

Sandberg, F. W., Oak Park, Chicago.
Gold and silversmiths' work, done wholly with the hammer.

Spengler, F., New York.
Silversmiths' work.

Swamby, G., New York.
Enameling.

Taylor, S. S., Hartford, Connecticut.
Burnishing tools.

Thoma, J. S., New York.
Design of silverware.

Tiffany & Company, Union Square, New York.
Gold and silversmiths' ware, enameled work, etc.
Paris, 1878, Grand Prix; 1889, Chevalier Legion d'Honneur.

CLASS 95.

JEWELRY.

EQUIPMENT, PROCESSES AND PRODUCTS.

Attleboro Manufacturing Company, Attleboro, Massachusetts.—Jewelry and novelties.

Azure Mining Company, 172 Broadway, New York.
Turquoises cut and rough, and turquoise jewelry.

Barber Jewelry Company, 36 Gold St., New York.
Pyrites jewelry and alligator teeth.

Codman, Wm. C., New York.
Designs for jewelry.

Donohue, E. T., New York.
Lapidary work.

Dreyer, H. O., New York.
Lapidary work.

Farnham, Paulding, New York.
Design for silverware, jewelry, and lapidary work.

Gorham Manufacturing Company, 19th Street and Broadway, New York.—Gold and silver jewelry.

Guentzer, H., New York.
Design for jewelry.

Haas, A., New York.
Design for jewelry.

Jordan, Frederick A., New York.
Decoration for Martele ware.

Klapp, Mrs. Wm., "The Plaza," Chicago, Illinois.
Jewelry.

Kunz, George Frederick, M.A., New York.
Minerals, semi-precious and precious stones; folklore of precious stones.

Mansfield, M. J., New York.
Artistic jewelry.

Maynard, New York.
Model for jewelry.

New York Novelty Company, 907 Hancock St., Brooklyn, New York.—Jewelry.

Palmeri, L. J., 97 Saratoga Avenue, Brooklyn, New York.
Novelty jewelry.

Rider, S. A., Jewelry Company, 705 Washington St., St. Louis, Missouri.—Jewelry and fancy goods.

Sandberg, F. W., Oak Park, Chicago, Illinois.
Metal work done wholly with the hammer.

Spratt, Charles E., 44th Street, New York.
Jewelry.

Straker, Jos. E., New York.
Jewelry.

Tiffany & Company, Union Square, New York.
Fine jewelry and jewelry set with precious stones; lapidary work; cut and uncut semi-precious stones.

Wagner Manufacturing Company, Sydney, Ohio.
Aluminium goods.

Whitehouse, James H., New York.
Design for jewelry.

Wright, T. H., New York.
Design for jewelry.

CLASS 96.

CLOCK AND WATCH MAKING.

EQUIPMENT, PROCESSES AND PRODUCTS.

Automatic Electric Clock Company, 231 S. Canal Street, Chicago.—Automatic electric clocks.

Brandt-Dent Company, Watertown, Wisconsin.
Cash register.

Bundy Manufacturing Company, Binghamton, New York.
Time recorders (clocks).

Chicago Time Register Company, Chicago,
Time registers, clocks.

Ingersoll, Robert H., & Brothers, 67 Cortlandt St., New York.
Watches and specialties.

International Computing Machine Company, Chicago.
Comptometer.

Krahenbuhl, San Rafael, California.
Model of watches and clocks.

Spratt, Charles E., 44th Street, New York.
Clocks and watches.

CLASS 97.

WORKS OF ART IN BRONZE, CAST IRON AND WROUGHT IRON, REPOUSSE WORK.

Ames, Mrs., Baltimore, Maryland.
Works of art in bronze.

Baur, Theodore, New York.
Works of art in bronze.

Bissell, George E., 30 East 14th Street, New York.
Works of art in bronze.

Bitter, Karl, Weehawken, New Jersey.
Works of art in bronze.

Bonnard, Henry, Bronze Company, 430 W. 16th Street, New York.—Castings in bronze and other metals.

Boyle, J. J., Watt Street, Philadelphia, Pennsylvania.
Works of art in bronze.

Bracken, Julia M., Studio Building, Chicago.
Works of art in bronze.

Frolich, F. H., 1321 Broadway, New York.
Works of art in bronze.

Hondon, Jean Antoine, New York.
Works of art in bronze.

Linder, H., 44 West 30th Street, New York.
Works of art in bronze.

Lopez, Charles, 249 1-2 East 13th Street, New York.
Works of art in bronze.

Moretti, G., 118 West 38th Street, New York.
Works of art in bronze.

Remington, F., 301 Webster Avenue, New Rochelle, New York.—Works of art in bronze.

Sandberg, F. W., Oak Park, Chicago,
Works of art in gold and silver, made wholly with the hammer.

Spratt, Charles E., 44th Street, New York.
Works of art in bronze.

Storck, George H., 123 Fifth Avenue, New York.
Works of art in bronze.

Storer, Mrs. Maria Longworth, U. S. Legation, Madrid, Spain.
Works of art in bronze.

Tiffany & Company, Union Square, New York.
Works of art in bronze and iron; repoussé work.

Tiffany Glass & Decorating Company, 333 Fourth Avenue, New York City.—Tablets and bronzes.

Toberentz, R., New York.
Works of art in bronze.

Ward, J. A., 119 West 52d Street, New York.
Works of art in bronze.

Whitehouse, F. W., New York.
Engraving and decorating of copper, plate printing, etc.

Winans, Walter, Surrenden Park, Ashford, Kent, England, and New York.—Works of art in bronze.

Wuertz, E., New York.
Works of art in bronze.

CLASS 98.

BRUSHES, FINE LEATHER ARTICLES, FANCY ARTICLES AND BASKET WORK.

Barnard, George, & Company, 212 Vanderbilt Building, New York.—Leather goods.

Bissell Carpet Sweeper Company, Grand Rapids, Michigan.
Carpet sweepers.

Brunswick-Balke-Collender Company, New York and Chicago.
Articles in ivory.

Gorham Manufacturing Company, Broadway, New York.
Fine leather articles, with mountings of gold and silver.
Philadelphia, 1876, gold medal; Paris, 1889, gold medal; Chicago, 1893, forty-nine awards.

Howard's, S. E., Son, & Company, Boston, Massachusetts.
Razor strops.

Jordan, A. J., St. Louis, Missouri.
Strops; wood and other cases.

Los Angeles Art Leather Company, Los Angeles, California.—Leather specialties.

Regensburg, O. H., 261 Dearborn Avenue, Chicago, Illinois.
Fancy articles in aluminium.

Reidy, Sara, 28 Washington Street, Chicago, Illinois.
Tortoise shells and hair goods for dressing hair.

Tiffany & Company, New York.
Fine leather articles, dressing cases, bags, pocket-books, portfolios, cigar and cigarette cases.

Young & Robinson, Pullman Building, Chicago.
Machine for making brushes.

CLASS 99.

INDIA RUBBER AND GUTTA PERCHA INDUSTRIES.

EQUIPMENT, PROCESSES AND PRODUCTS.

American Wringer Company, 99 Chambers St., New York.
Clothes wringers.

Arawani Mills, I. E. Palmer, Proprietor, Middletown, Connecticut.—Hammocks.

New Departure Trunk Company, Sumner Street, Boston, Massachusetts.—Patent trunks.

Weston Paper and Manufacturing Company, Dayton, Ohio.
Combined chair and hammock.

CLASS 100.

TOYS.

Barnard, George, & Company, 212 Vanderbilt Building, New York.—Sporting goods.

Crawford, McGregor & Canby, Dayton, Ohio.
Golf clubs.

Peck & Snyder, 126 Nassau St., New York.
Ice and roller skates for hockey, polo, la crosse, etc.

United States Playing Card Company, Cincinnati, Ohio.
Games.

Spalding, A. G., & Brother, Nassau Street, New York.
Implements used in athletic sports.

Spaulding Manufacturing Company, Chicago, Illinois.
Sporting goods in wood.

Wright and Ditson, Boston, Massachusetts.
Lawn tennis goods.

GROUP XVI.

SOCIAL ECONOMY, HYGIENE, PUBLIC CHARITIES.

HOWARD J. ROGERS, DIRECTOR.

CLASS 101.

APPRENTICESHIP—PROTECTION OF CHILD LABOR.

Department of Social Economy, U. S. Commission to Paris.—Maps, charts, plans, photographs and publications.

Dickson Manufacturing Company, Scranton, Pennsylvania.—Photographs.

House of Refuge, Boys' Department, Glen Mills, Pennsylvania.—Publications, photographs.

Labor Statistics, Bureau of, State of Massachusetts. Charts showing changes in laws in relation to child labor.

Lowell Textile School, Lowell, Massachusetts. Catalogues, photographs of building.

New Bedford Textile School, New Bedford, Massachusetts.—Catalogues; photographs of buildings.

Philadelphia Textile School, Philadelphia, Pennsylvania. Photographs.

CLASS 102.

WAGES—INDUSTRIAL REMUNERATION—PROFIT SHARING.

Department of Social Economy, U. S. Commission to Paris. Maps, charts, plans, photographs, books and pamphlets.

Gilman, N. B., Meadville, Pennsylvania.
Monograph on Co-operation and profit sharing.

Labor Satistics, Bureau of, State of New York, Albany, New York.—Diagrams showing condition of wage-earners in the State of New York.

Willoughby, William Franklin, Washington, D. C.
Monograph on economic institutions.

CLASS 103.

LARGE OR SMALL INDUSTRIES—CO-OPERATIVE ASSOCIATIONS FOR PRODUCTION OR FOR OBTAINING CREDIT—TRADE UNIONS.

Aluminium World, 218 William Street, New York.
Publication.

American Amateur Photographer, 241 Fifth Avenue, New York.—Publications.

American Artisan and Hardware Record, 69 Dearborn Street, Chicago.—Publications.

American Bee Journal, 18 Michigan Street, Chicago.
Publications.

American Building Association News, New York.
Reports of proceedings.

American Chemical Journal, University Building, New York.
Publication.

American Federation of Labor, Washington, D. C.
Statistics; reports; publications.

American Ginner and Cotton Reporting Agency, Meridian, Mississippi.—Publications.

American Investments, 202 Main Street, Buffalo, New York.
Publication.

American Iron and Steel Association, 261 S. Fourth St., Philadelphia.—Publication.

American Knit Goods Review, Vincent Building, 302 Broadway, New York.—Publications.

American Lumberman, Manhattan Building, 315 Dearborn St., Chicago.—Publications.

American Manufacturer and Iron World, Pittsburg, Pennsylvania.—Publications.

American Shipbuilder, 7 Coenties Slip, New York. Publication.

American Telephone and Telegraph Company, 15 Dey Street, New York City.—Map of lines.

Anaconda Mining Company, Butte City, Montana. Photographs.

Anthony, E. & H. T., & Company, 591 Broadway, New York City.—Publications.

Arizona Lumber and Timber Company, Flagstaff, Arizona. Photographs.

Atchison, Topeka & Santa Fe Railroad, Chicago. Publications.

Atlanta & West Point Railroad, Atlanta, Georgia. Photographs.

Ayers, N. W., & Company, Times Building, Philadelphia, Pennsylvania.—Newspaper Directory.

Baldwin Locomotive Works, 500 Broad Street, Philadelphia, Pennsylvania.—Photographs.

Baltimore and Ohio Relief Association, Baltimore, Maryland. Reports, constitution, etc,

Bangor & Aroostook Railroad, Bangor, Maine. Pamphlets and photographs.

Bank Commissioners, New Hampshire Board of, Concord, New Hampshire.—Reports.

Banking, Commissioner of, of Pennsylvania, Philadel- phia, Pennsylvania.—Reports.

Belden, A. S., 695 Broadway, New York. Publications.

Board of Arbitration, Connecticut State, Hartford, Connecticut.—Reports; statistics.

Board of Arbitration, Illinois State, Springfield, Illinois.
Reports; statistics.

Board of Arbitration, Indiana State, Indianapolis, Indiana.—Reports; statistics.

Board of Arbitration, Massachusetts State, Boston, Massachusetts.—Reports; statistics.

Board of Arbitration, New York State, Albany, New York.—Reports; statistics.

Board of Arbitration, Ohio State, Columbus, Ohio.
Reports; statistics.

Board of Arbitration, Wisconsin State, Madison, Wisconsin.—Reports; statistics.

Board of Trade, Bangor, Maine.
Pamphlets.

Board of Trade, Chicago.
Reports.

Board of Trade, Lynchburg, Virginia.
Pamphlets; photographs.

Board of Trade, Nevada State, Reno, Nevada.
Photographs.

Board of Trade, Philadelphia, Pennsylvania.
Publication.

Board of Trade, Steubenville, Ohio.
Publications.

Board of Trade, Tampa, Florida.
Photographs.

Boston & Maine Railway, Boston, Massachusetts.
Photographs and descriptive publications.

Boston Journal of Commerce and Textile Industries, 128 Purchase Street, Boston, Massachusetts.—Publications.

Brick, Monon Building, Chicago.
Publication.

Brickbuilder, 85 Water Street, Boston, Massachusetts.
Publication.

Brotherhood of Locomotive Engineers, Cleveland, Ohio.
Publications.

Building and Loan Association, California, Sacramento, California.—Reports of proceedings.

Building and Loan Associations, Illinois State League, Springfield, Illinois.—Documents.

Building and Loan Associations, Indiana State League, Indi- anapolis, Indiana.—Documents, etc.

Building and Loan Association, Louisiana State League, Baton Rouge, Louisiana.—Documents, etc.

Building and Loan Association, Metropolitan League of New York, New York.—Documents, etc.

Building and Loan Associations, Massachusetts State League, Boston, Masachusetts.—Documents, etc.

Building and Loan Associations, Michigan State League, Lansing, Michigan.—Documents, etc.

Building and Loan Associations, Missouri State League, Jef- ferson City, Missouri.—Documents, etc.

Building and Loan Associations, National League of, Wash- ington, D. C.—Documents, etc.

Building and Loan Associations, Wisconsin State League, Madison, Wisconsin.—Documents, etc.

Building and Loan Commission of New York, New York.
Reports.

Bureau of American Republics, Washington, D. C.
Commercial directory.

Bureau of Labor Statistics, of Massachusetts, Boston, Massa- chusetts.—Charts showing concentration of industries into large establishments.

Bureau of Statistics, United States Government, Washington, D. C.—Report of Chief of Bureau.

Burlington Railroad, 209 Adams Street, Chicago.
Publications.

Burlington Voluntary Relief Department, Burlington, Iowa.—Reports, constitution and documents.

California Paris Exposition Commission, San Francisco, California.—Photographs.

California Fruit Grower, 320 Sansome Street, San Francisco, California.—Publications.

Chamber of Commerce, Charleston, South Carolina. Photographs.

Chicago Dry Goods Reporter, 233 Fifth Avenue, Chicago. Publications.

Chicago Pneumatic Tool Company, Monadnock Building, Chicago.—Photographs.

Chicago Record, Chicago. Photographs.

Chicago, Rock Island & Pacific Railroad, Chicago. Photographs and documents.

Cleveland, Cincinnati, Chicago & St. Louis Railway, Cincinnati, Ohio.—Publications.

Clifford & Lawton, Union Square, New York. Publications.

Cluett, Peabody & Company, 433 River Street, Troy, New York.—Photographs.

Columbus Face Brick Company, Columbus, Ohio. Photographs; sample of products.

Commissioner of Agriculture, Louisiana State, Baton Rouge, Louisiana.—Publications.

Commoner & Glassworker, The, Pittsburg, Pennsylvania. Publications.

Confectioner's Journal, 209 South Sixth Street, Philadelphia. Publication.

Cotton Belt Route, St. Louis, Missouri. Publications.

Crane Company, Chicago. Photographs.

Crockery and Glass Journal, 92 W. Broadway, New York.
Publication.

Daily Mining Record, Denver, Colorado.
Publication.

Davidson Publishing Company, 401 Broadway, New York.
Publications.

De La Mar's Mercur Mines Company, Mercur, Utah.
Photographs.

Denver & Rio Grande Railroad Company, Denver, Colorado.—Pamphlets.

Department of Social Economy, U. S. Commission to Paris Exposition.—Maps, charts, plans, photographs, books, pamphlets.

Dixie Miller, Nashville, Tennessee.
Publication.

Dockham, C. A., & Company, 131 Devonshire Street, Boston, Massachusetts.—Directory, Dockham's Textile Manufacturer.

Dodge Manufacturing Company, Mishawaka, Indiana.
Photographs.

Dowst Brothers Company, 24-30 S. Clinton Street, Chicago.
Publication.

Dungan, Hood & Company, Philadelphia, Pennsylvania.
Photographs.

Earl & Wilson, Troy, New York.
Photographs.

Electrical Review, 41 Park Row, New York.
Publications.

Engineering Magazine, 120 Liberty Street, New York.
Publication.

Engineering News Publishing Company, 220 Broadway, New York.—Publications.

Export Carriage Monthly, Philadelphia, Pennsylvania.
Publication, map of carriage manufacturers.

Express Gazette, Cincinnati, Ohio.
Publications.

Farm Implement News, Masonic Temple, Chicago.
Publication.

Fishing Gazette, 203 Broadway, New York.
Publication.

Fisk, Haley, Boston, Massachusetts.
Special report concerning the history and character of industrial insurance in the United States.

Flickenger, J. H., & Company, San Jose, California.
Photographs.

Forester, The, Washington, D. C.
Publications.

Foresters of America, Brooklyn, New York.
Reports, etc.

Fostoria Glass Company, Moundsville, W. Virginia.
Photographs.

Furniture Worker, 126 Longworth Street, Cincinnati, Ohio.
Publications.

General Electric Company, Schenectady, New York.
Photographs; pen and ink drawings.

Glass & Pottery World Company, 21 Quincy Street, Chicago.—Publication.

Granite, 131 Devonshire Street, Boston, Massachusetts.
Publication, photographs.

Herald Publishing Company, Steubenville, Ohio.
Photographs.

Herschell, Rhine & Company, 1420 Chestnut Street, Philadelphia, Pennsylvania.—Directory, the World's Market.

Hires Turner Glass Company, 626 Arch Street, Philadelphia, Pennsylvania.—Photographs.

Hocking Valley Railroad, Columbus, Ohio.
Photographs.

Hotel Monthly, 325 Dearborn Street, Chicago.
Publication.

Hotel Red Book and Directory Company, Grand Union Hotel, New York.—Directory.

Howe Addressing Company, 208 South 4th Street, Philadelphia, Pennsylvania.—Publications.

Illinois Steel Company, Rookery, Chicago.
Photographs.

Ingersoll-Sergeant Drill Company, 26 Cortlandt Street, New York City.—Photographs.

Inland Printer Company, 212 Monroe Street, Chicago.
Publications, photographs.

International & Great Northern Railroad Company, Palestine, Texas.—Photographs, pamphlets.

Iron and Steel, 40 Dearborn Street, Chicago.
Publications.

Iron Trade Review, Cleveland, Ohio.
Publication.

Jeffrey Manufacturing Company, Columbus, Ohio.
Photographs.

Jones, Edward D., Madison, Wisconsin.
Monographs: Resources and Industries; the Country and the People of the United States.

Journeymen Stone Cutters' Association, Cincinnati, Ohio.
Statistics and publications.

Journeymen Tailors' Union, Bloomington, Illinois.
Publication.

Lehigh Valley Railroad, 26 Cortlandt Street, New York.
Reports; constitution and pamphlets.

Link Belt Engineering Company, Philadelphia, Pennsylvania.—Photographs.

Locomotive Engineering, 95 Liberty Street, New York.
Publications.

Locomotive Engineers, Brotherhood of, Cleveland, Ohio.
Publications.

Locomotive Fireman's Magazine, Peoria, Illinois.
Publications.

Louisiana Planter and Sugar Manufacturer, 339 Carondelet Street, New Orleans, Louisiana.—Publication.

Lumber Trade Journal, 18 Broadway, New York.
Publications.

Lyon, Robert P., 416 Broadway, New York.
Directory, Lyon Reference Book.

Macullar Parker Company, 398-400 Washington St., Boston, Massachusetts.—Photographs of their clothing manufacturing workshops.

Manhattan Storage and Warehouse Company, Lexington Ave. and 42nd St., New York City.—Photographs.

Manufacturers' Record, Baltimore, Maryland.
Publications.

Manufacturing Jeweler, Providence, Rhode Island.
Publication.

Master Builders' Association, New York.
Publication.

Merritt & Chapman Derrick & Wrecking Company, 27 William St., New York City.—Photographs.

Meyer Brothers' Druggist, St. Louis, Missouri.
Publication.

Michigan Artisan, Grand Rapids, Michigan.
Pamphlet.

Mining and Engineering Review, 429 Montgomery Street, San Francisco, California.—Publications.

Minnesota Iron Company, Duluth, Minnesota.
Photographs of mines, docks and ships.

Mississippi Valley Lumberman, 1013 Lumber Exchange, Min- neapolis, Minnesota.—Publication.

Missouri Lumber & Mining Company, Granden, Missouri.
Photographs.

Modern Miller, St. Louis, Missouri.
Publications.

Myrick, Herbert, Springfield, Massachusetts.
Publications.

National Nurseryman Publishing Company, Rochester, New York.—Publication.

New England Shoe & Leather Association, 116 Bedford Street, Boston, Massachusetts.—Documents, photographs.

Northwestern Miller, Minneapolis, Minnesota.
Publications.

Oregon Short Line Railroad, Salt Lake City, Utah.
Publications.

Ores and Metals, Denver, Colorado.
Publications.

Pennsylvania Railroad, Philadelphia, Pennsylvania.
Reports, photographs and charts.

Pennsylvania Railroad Employees' Savings Fund, Philadelphia, Pennsylvania.—Reports, charts, statistics, photographs.

Philadelphia and Reading Railroad, Philadelphia, Pennsylvania.—Reports, constitution and pamphlet.

Philadelphia Commercial Museum, Philadelphia, Pennsylvania.—General exhibit.

Philadelphia Times, Times Building, Philadelphia, Pennsylvania.—Photographs.

Piano Manufacturers' Association, 113 14th Street, New York.—American Musical Club Directory.

Pittsburg and Western Railway Relief Department, Pittsburg, Pennsylvania.—Reports, constitution, etc.

Popular Science, 108 Fulton Street, New York.
Publications.

Portland, The, Portland, Oregon.
Photographs; pamphlets.

Portland Tradesman, Rooms 7-10, 49 1-2 First Street, Portland, Oregon.—Publication.

Post, L. D., 108 Fulton Street, New York.
Publication.

Postal Telegraph Cable Company, New York.
Map of lines.

Power, World Building, New York.
Publication.

Powers, E. L., Company, 150 Nassau Street, New York.
Publications.

Profitable Advertising, 227 Washington Street, Boston, Massachusetts.—Publiçations.

Progressive Age, The, 280 Broadway, New York.
Publication.

Railroad Employee, 494 Broad Street, Newark, New Jersey.
Publication.

Railroad Telegraphers, St. Louis, Missouri.
Publications.

Railway Age, Monadnock Block, Chicago.
Publication.

Railway and Engineering Review, 1305 Manhattan Building, Chicago.—Publications.

Railway Master Mechanic, 315 Dearborn Street, Chicago.
Publication.

Randall, T. A., & Company, Indianapolis, Indiana.
Publication.

Remington Standard Typewriter, New York.
Photographs.

Retail Druggist, 37 Hodges Building, Detroit, Michigan.
Publications.

Review & Herald Publishing Company, Battle Creek, Michigan.—Photographs.

Richardson, T. M., Company, 27 Park Place, New York.
Publications.

Riley Brothers, 16 Beekman Street, New York.
Views of large and small industries.

Rookwood Pottery Company, Cincinnati, Ohio.
Photographs.

Rutland Railroad Company, Rutland, Vermont.
Publications.

Sample Lumber Company, Hollins, Alabama.
Photographs.

San Francisco Trade Journal, San Francisco, California.
Publications.

Schieren, Charles A., & Company, 45-50 Ferry Street, New York City.—Photographs.

Schoff, W. A., Commercial Museum, Philadelphia, Pennsylvania.—Monograph on commercial institutions.

Sheffield Car Company, Three Rivers, Michigan.
Photographs.

Shoe & Leather Reporter, 17 Spruce Street, New York.
Directory, Shoe and Leather Reporter Annual.

Singer Manufacturing Company, 149 Broadway, New York.—Photographs.

Skinner, Frank W., 100 William Street, New York.
Photographs of large industrial undertakings.

Southern Lumberman, Nashville, Tennessee.
Photographs.

Southern Planter, Richmond, Virginia.
Publication.

Southern Railway Company, Washington, D. C.
Photographs; publications.

Springfield Machine Tool Company, Springfield, Ohio.
Photographs.

Standard Varnish Works, 29 Broadway, New York.
Photographs.

Starchroom, Cincinnati, Ohio.
Publications and photographs.

Steinmeyer, William, & Company, 316-320 Third Street, Mil-waukee, Wisconsin.—Photographs.

Stone, 705 Pontiac Building, Chicago.
Photographs.

Studebaker Brothers Manufacturing Company, South Bend, Indiana.—Photographs.

Sugar Beet, Philadelphia, Pennsylvania.
Publications.

Sunset, 4 Montgomery Street, San Francisco, California.
Publication.

Swift & Company, Union Stock Yards, Chicago.
Photographs.

Telephone Magazine, Marquette Building, Chicago.
Publication.

Terre Haute Brick Pipe Company, Terre Haute, Indiana.
Photographs.

Texas Farm and Ranch, Dallas, Texas.
Publication.

Textile Publishing Company, 78-80 Walker Street, New York City.—Publication.

Thompson Reporting Company, Boston, Massachusetts.
Directory of piano manufacturers.

Tin and Terne and the Metal World, 53 Ninth Street, Pitts-burg, Pennsylvania.—Publication.

Tobacco Leaf Publishing Company, 96 Maiden Lane,
New York City.—Publication.

Trade Journal, Richmond, Virginia.
Publication.

Trigg, William R., & Company, Richmond, Virginia.
Photographs.

Triumph Ice Machine Company, Cincinnati, Ohio.
Photographs.

Tyndell, E. T., 920 Walnut Street, Philadelphia, Pennsyl-vania.—Publication: National Barber.

Vermont Improvement Association, Montpelier, Vermont.
Publications.

Vermont Marble Company, Proctor, Vermont.
Photographs.

Ware Brothers, Philadelphia, Pennsylvania.
Publication: Carriage Monthly.

Weaver's Herald, The, Wonderly Publishing Company,
Lyons, Kansas.—Publication.

Western Union Telegraph Company, New York.
Map of lines.

Westinghouse Company, Pittsburg, Pennsylvania.
Photographs.

Wholesale Grocers' and Canners' Directory, Minneapolis, Minnesota.—Directory.

Willoughby, W. F., Washington, D. C.
Monograph on industrial arbitration and conciliation.

Winslow Brothers Company, The, Carroll Ave. and Fulton St., Chicago.—Photographs.

Wood, Walter A., Mowing and Reaping Machine Company, Hoosick Falls, New York.—Photographs.

CLASS 104.

FARMING ON A LARGE OR SMALL SCALE—AGRICULTURAL UNIONS AND BANKS.

Alabama Land and Development Company, Mobile, Alabama.
Photographs.

Atlantic Coast Line, Wilmington, North Carolina.
Photographs.

Board of Trade, State of Nevada, Reno, Nevada.
Photographs.

Boston & Maine Railway, Boston, Massachusetts.
Photographs and descriptive publications.

California Paris Exposition Commission, San Francisco, California.—Photographs.

Chamber of Commerce, Los Angeles, California.
Photographs.

Chamber of Commerce, Santa Ana, California.
Photographs.

Corn Belt, 209 Adams Street, Chicago.
Publications.

Department of Social Economy, United States Commission to Paris, Chicago.—Maps, charts, plans, photographs, books.

Grain Dealers' Journal, 10 Pacific Avenue, Chicago.
Publication.

Hammondsport Wine Company, Hammondsport, New York.—Photographs.

Hoard's Dairyman, Fort Atkinson, Wisconsin.
Publication.

Hocking Valley Railroad, Columbus, Ohio.
Photographs.

Indiana Farmer Company, 30-36 N. Delaware Street, Indianapolis, Indiana.—Publication.

Jones, Edward D., Madison, Wisconsin.
Monographs: The Country and the People; Its Industries and Resources.

McCormick Harvesting Machine Company, Chicago.
Photographs.

Pleasant Valley Wine Company, Rheims, New York.
Photographs.

Registrar of Titles of Cook County, Chicago.
Blanks in use in office; copy of Torrens' Law of Illinois.

Southern Railway Company, Washington, D. C.
General exhibit.

Treasury Department, Washington, D. C.
Reports of Comptroller of Currency.

CLASS 105.

PROTECTION OF WORKERS IN FACTORIES.

American Machinist, New York.
Photographs.

Brownell, F. H., Rochester, New York.
Publications and photographs.

Department of Social Economy, U. S. Commission to Paris Exposition.—Maps, charts, plans, photographs, books and pamphlets.

Inspection of Factories, Connecticut State Bureau of, Hartford, Connecticut.—Reports; inspection blanks, statistics, photographs.

Inspection of Factories, Illinois State Bureau of, Springfield, Illinois.—Reports, inspection blanks, statistics, photographs.

Inspection of Factories, Indiana State Bureau of, Indianapolis, Indiana.—Reports; inspection blanks; statistics; photographs.

Inspection of Factories, Massachusetts State Bureau of, Boston, Massachusetts.—Reports, inspection blanks, statistics, photographs, special pamphlet.

Inspection of Factories, Michigan State Bureau of, Lansing, Michigan.—Reports; inspection blanks; statistics; special pamphlets; photographs.

Inspection of Factories, New Jersey State Bureau of, Trenton, New Jersey.—Reports, inspection blanks, statistics, photographs.

Inspection of Factories, New York State Bureau of, Albany, New York.—Reports, inspection blanks, statistics, photographs.

Inspection of Factories, Ohio State Bureau of, Columbus, Ohio.—Reports, inspection blanks, statistics, photographs.

Inspection of Factories, Pennsylvania State Bureau of, Harrisburg, Pennsylvania.—Reports, inspection blanks, statistics, photographs.

Inspection of Factories, Rhode Island State Bureau of, Providence, Rhode Island.—Reports, inspection blanks, statistics, photographs.

Inspection of Mines, California State Bureau of, Sacramento, California.—Reports, photographs, statistics.

Inspection of Mines, Illinois State Bureau of, Springfield, Illinois.—Reports, photographs, statistics.

Inspection of Mines, Iowa State Bureau of, Des Moines, Iowa.—Reports, photographs, statistics.

Inspection of Mines, Kansas State Bureau of, Topeka, Kansas.—Reports, photographs, statistics.

Inspection of Mines, Kentucky State Bureau of, Frankfort, Kentucky.—Reports, photographs, statistics.

Inspection of Mines, Maryland State Bureau of, Baltimore, Maryland.—Reports, photographs, statistics.

Inspection of Mines, Montana State Bureau of, Helena, Montana.—Reports, photographs, statistics.

Inspection of Mines, Ohio State Bureau of, Columbus, Ohio.—Reports, photographs, statistics.

Inspection of Mines, Pennsylvania State Bureau of, Harrisburg, Pennsylvania.—Reports, photographs, statistics.

Inspection of Mines, South Dakota State Bureau of, Pierre, South Dakota.—Reports, photographs, statistics.

Inspection of Mines, West Virginia State Bureau of, Wheeling, West Virginia.—Reports, photographs, statistics.

Labor, Connecticut State Bureau of, Hartford, Connecticut.—Reports, statistics.

Labor, Illinois State Bureau of, Springfield, Illinois. Reports, statistics, special pamphlets.

Labor, Indiana State Bureau of, Indianapolis, Indiana. Reports, statistics, special pamphlets.

Labor, Massachusetts State Bureau of, Boston, Massachusetts.—Reports, statistics, special pamphlets.

Labor, Minnesota State Bureau of, St. Paul, Minnesota. Reports, statistics.

Labor, Nebraska State Bureau of, Lincoln, Nebraska. Reports, statistics.

Labor, New Hampshire State Bureau of, Concord, New Hampshire.—Reports, statistics, special pamphlets.

Labor, New York State Bureau of, Albany, New York. Reports, statistics, publications.

Labor, Wisconsin State Bureau of, Madison, Wisconsin. Reports, statistics, special pamphlets.

Labor and Industrial Statistics and Factory Inspection, Kansas State Bureau of, Topeka, Kansas.—Pamphlets, reports.

Labor Statistics, Massachusetts Bureau of, Boston, Massachusetts.—Historical charts showing changes in hours of labor.

Massachusetts Insurance Commissioner, Boston, Massachusetts.—Charts showing insurance against employers' liability.

Massachusetts, Chief of the District Police, Boston, Massachusetts.—Factory inspection; inspection of steam boilers; inspection of sweat shops; safety devices.

National Iron Company, The, 1123 Broadway, New York.
Models of various patterns of fire escapes.

Otis Elevator Company, 108 Liberty Street, New York.
Photographs.

Williams, J. H., Company, Brooklyn, New York.
Photographs of buildings and arrangement of plant.

Willoughby, W. F., Washington, D. C.
Monographs on various subjects of Social Economy.

CLASS 106.

WORKMEN'S DWELLINGS.

Apollo Iron & Steel Company, Pittsburg, Pennsylvania.
Model of an industrial village.

Architectural Record, 14-16 Vesey St., New York.
Publication.

Crane Manufacturing Company, Dalton, Massachusetts.
Photographs of buildings and social institutions.

Department of Social Economy, U. S. Commission to Paris Exposition.—Maps, charts, plans, photographs, books and pamphlets.

Draper Company, Limited, Hopedale, Massachusetts.
Photographs.

Lucas, John, & Company, 4th and Race Sts., Philadelphia, Pennsylvania.—Model artisan's dwelling.

Tenement House Committee, Associated Charities, of New York City, New York.—Models of tenement houses.

Veiller, Lawrence, 105 East 22d St., New York.
Monograph on the problem of furnishing dwellings for workmen.

Walker & Pratt Manufacturing Company, Boston, Massa-chusetts.—Reports, publications and photographs.

CLASS 107.

CO-OPERATIVE STORES.

Consumers Supply Company, 396-398 Broadway, New York.
General exhibit.

Department of Social Economy, U. S. Commission to Paris Exposition.—Maps, charts, plans, photographs and publications.

Harvard Co-operative Society, Cambridge, Massachusetts.
Photographs, publications.

Institute of Technology Co-operative Association, Boston, Massachusetts.—Methods of co-operative distribution.

Nelson Manufacturing Company, Leclaire, Missouri.
Publications; photographs of buildings and grounds.

Pillsbury Mills, Minneapolis, Minnesota.
Reports and photographs.

Proctor & Gamble Company, Ivorydale, Ohio.
Photographs of buildings and grounds. Pension fund and profit sharing.

Toledo, Ann Arbor & North Michigan Railroad Company, Toledo, Ohio.—Publications and photographs.

CLASS 108.

INSTITUTIONS FOR THE MENTAL AND MORAL IMPROVEMENT OF WORKINGMEN.

Acme Sucker-Rod Company, Toledo, Ohio.
Photographs.

American Cotton Company, 27 William St., New York.
Photographs.

American Waltham Watch Company, Waltham, Massachusetts.—Photographs.

Association of Engineering Societies, 257 S. Fourth St., Philadelphia, Pennsylvania.—Proceedings.

Bethlehem Steel Company, South Bethlehem, Pennsylvania.
Photographs.

Briar Cliff Manor Farms, Briar Cliff, New York.
Reports and photographs.

Brownell Manufacturing Company, Rochester, New York.
Photographs.

Cleveland Hardware Company, Cleveland, Ohio.
Photographs.

Conant Thread Company, Pawtucket, Rhode Island.
Photographs.

Crane Manufacturing Company, Dalton, Massachusetts.
Photographs of buildings and social institutions.

Department of Social Economy, U. S. Commission to Paris.
Charts, plans, photographs, books, etc.

Eastman Kodak Company, Rochester, New York.
Photographs.

Electric Railroad Company, Buffalo, New York.
Photographs.

Evening Press, Grand Rapids, Michigan.
Photographs.

Ferris Brothers, New Jersey.
Photographs.

General Electric Company, Schenectady, New York.
Photographs.

Gorham Manufacturing Company, Providence, Rhode Island.
Photographs.

Heinz & Company, Pittsburg, Pennsylvania.
Photographs of buildings and grounds.

Illinois Steel Works, Joliet, Illinois.
Photographs of social institutions.

League for Social Economy, Collective Exhibit.
Work of the churches.

Ludlow Manufacturing Company, Boston, Massachusetts.
Photographs.

National Cash Register Company, Dayton, Ohio.
Photographs and publications.

Nelson Manufacturing Company, Leclaire, Missouri.
Photographs of buildings and grounds; publications.

New York Central Railroad, New York.
Photographs.

Orton, Edward, Jr., Columbus, Ohio.
Photographs.

Pope Manufacturing Company, Hartford, Connecticut.
Photographs of buildings and grounds.

Philadelphia School of Industrial Art, Philadelphia, Pennsylvania.—Photographs and descriptive publications.

Reporter, The, Logansport, Indiana.
Publications and photographs.

Siegel-Cooper Company, New York and Chicago.
Photographs of buildings and grounds.

Sherwin-Williams Company, Cleveland, Ohio.
Publications and photographs of buildings and grounds.

Southern Pacific Railroad, Chicago.
Photographs.

Sprague Elevator Company, New York.
Photographs.

Stetson, John B., Company, Philadelphia, Pennsylvania.
Publications and photographs of buildings and grounds.

Tolman, William Howe, New York.
Monograph on movements for industrial betterment.

University of the State of New York, Albany, New York.
Home education; traveling libraries; study clubs and lectures.

Wanamaker, John, New York.
Photographs of social institutions.

Warner Brothers, Bridgeport, Connecticut.
Photographs of social institutions.

West & Simons, Port Chester, New York.
Photographs and publications.

Westinghouse Air Brake Company, Pittsburg, Pennsylvania.
Photographs.

Worcester Corset Company, Worcester, Massachusetts.
Photographs.

Williams, T. H., & Company, Brooklyn, New York.
Photographs.

CLASS 109.

PROVIDENT INSTITUTIONS.

American Society of the Propaganda, Boston, Massachusetts.
Publications.

Ancient Order of Hibernians, Philadelphia, Pennsylvania.
Reports, etc.

Baldwin Locomotive Works, Philadelphia, Pennsylvania.
Publications and photographs. System of receiving from employes deposits, upon which 4 per cent. interest is paid.

Cleveland Terminal & Valley Railroad Relief Department.
Reports, constitution, etc.

Comptroller of Currency, Washington, D. C.
Reports.

Department of Social Economy, U. S. Commission to Paris Exposition—Maps, charts, plans, photographs.

Equitable Life Assurance Society of the United States, New York.—Charts, statistics, photographs, publications.

Illinois Central Railroad, Chicago, Illinois.
Publications and photographs.

Independent Order of Foresters, Philadelphia, Pennsylvania.
Publications, etc.

Independent Order of Rechabites, New York.
Reports.

Knights of the Golden Eagle, New York.
Reports.

Knights of Malta, New York.
Reports, publications, statistics.

Knights of the Maccabees, Port Huron, Michigan.
Reports.

Locomotive Engineers' Mutual Life and Accident Insurance Association, Cleveland, Ohio.—Charts and publications.

Lyford, James O., Concord, New Hampshire.
Pamphlet giving the history of savings banks in New Hampshire.

Massachusetts State Insurance Commissioner, Boston, Massa-chusetts.—Charts showing extent of life insurance business in Massachusetts.

Massachusetts Savings Bank Commissioners, Boston, Massa-chusetts.—Charts showing development of savings bank system, increased deposits, etc. Reports.

Metropolitan Life Insurance Company, New York.
Publications, statistics and life insurance methods.

Mutual Life Insurance Company of New York, 32 Nassau St., New York City.—Charts, statistics, photographs, publications.

New York State Banking Department, Albany, New York.
Reports, statistics, special monograph on state system.

New York State Insurance Department, Albany, New York.
Reports.

Order of Scottish Clans, Washington, D. C.
Reports.

Pennsylvania Railroad Company, Philadelphia, Pennsylvania.
Reports, pamphlets, and photographs.

Pittsburg Junction Railroad Relief Department, Allegheny City, Pennsylvania.—Reports, constitution, etc.

Proctor & Gamble, Ivorydale, Ohio.
Photographs of buildings and grounds.

Prudential Life Insurance Company, Newark, New Jersey.
Publications, statistics, and life insurance methods.

Royal Arcanum, Boston, Massachusetts.
Publications, charts.

Stetson, John B., Company, Philadelphia, Pennsylvania.
Publications and photographs of buildings and grounds.

United American Mechanics, Washington, D. C.
Reports, etc.

United Ancient Order of Druids, New York.
Reports, etc.

Warren, Nathan, Boston, Massachusetts.
Pamphlet giving history of life insurance in Massachusetts.

Willoughby, William Franklin, Washington, D. C.
Monograph on economic institutions.

Woodmen of the World, New York.
Reports, etc.

CLASS 110.

PUBLIC OR PRIVATE MOVEMENTS FOR THE WELFARE OF THE PEOPLE.

American Academy of Political and Social Science, Philadelphia, Pennsylvania.—Publications.

American Economic Association, Ithaca, New York.
Publications, reports.

American Humane Education Society, Boston, Massachusetts.
Reports.

American Humane Society, Chicago.
Publications, photographs, statistics.

Atlanta University, Atlanta, Georgia.
Statistical charts showing development of negroes in America.

Board of Trade, Bangor, Maine.
Pamphlets.

Board of Trade, Chicago, Illinois.
Reports.

California Paris Exposition Commission, San Francisco, California.—Photographs.

Chamber of Commerce, Charleston, South Carolina.
Photographs.

Chamber of Commerce, Cleveland, Ohio.
Photographs.

Consolidation Coal Company, Baltimore, Maryland.
Photographs, lantern slides.

Coleman Manufacturing Company, Concord, North Carolina.
Photograph of cotton mill owned and operated by negroes.

Colored American, Washington, D. C.
Bound volumes of negro newspapers.

Daughters of the American Revolution, National Society of.
Reports showing organization and growth of society.

Department of Social Economy, United States Commission to
Paris Exposition, Chicago, Illinois.—Maps, charts, plans, photographs, books and pamphlets.

Devaul, George R., Atlanta, Georgia.
Ornamental cutting on horns.

DuBois, W. E. B., Atlanta, Georgia.
Collective exhibit, results of social study of the negro in Georgia.

Fisk University, Nashville, Tennessee.
Written work by negro pupils.

Fleetwood, C. E., War Department, Washington, D. C.
Charts showing photographs and official records of negro soldiers and sailors and their medals of honor.

General Welfare Association, Jackson, Michigan.
Publications.

Good Roads Offices, Washington, D. C.
Photographs.

Haines Industrial Institute, Augusta, Georgia.
Sewing work by negro pupils.

Hampton Normal and Agricultural Institute, Hampton, Virginia.—Photographs of pupils' work in classes, shops and agriculture. Model bank.

Harper, Robert H., Chicago, Illinois.
Collective exhibit showing homes, business enterprises, etc., of the negroes of Chicago.

Hilyer, Andrew F., Washington, D. C.
Collective exhibit of negroes in merchandise, factories and allied occupations.

Howard University, Washington, D. C.
Charts and photographs showing professional education among negroes.

Jones, Edward D., Madison, Wisconsin.
Monographs: The country and the people of the United States; its industries and resources.

Lee, Bishop B. F., Wilberforce, Ohio.
Charts and photographs of negro self-development in church and school.

Michigan Political Science Association, Ann Arbor, Michigan.
Publications.

Moran Brothers Company, Seattle, Washington.
Photograph.

Murray, Daniel, Library of Congress, Washington, D. C.
Books and musical compositions by negro authors.

Niell, James P., Nashville, Tennessee.
Chart of photographs and percentages of negroes in civil service.

Patent Office, Washington, D. C.
Patents issued to negroes.

Political Science Quarterly, Cambridge, Massachusetts.
Publication.

Roger Williams University, Nashville, Tennessee.
Photographs and catalogue.

Shaw University, Raleigh, North Carolina.
Photographs and catalogue.

Shepherd, Harry, St. Paul, Minnesota.
Photographs of homes, schools, churches, etc., of negroes.

Speirs, Frederick W., Lansdowne, Pennsylvania.
Monograph on municipal movements and social progress.

Strong, Josiah, New York.
Monograph on religious movements and social progress.

Tolman, William Howe, New York.
Monograph on movements for industrial betterment.

Tucker, Frederick de Latour Booth, New York.
Monograph on the "Salvation Army."

Tuskegee Normal and Industrial Institute, Tuskegee, Alabama.—Shop work, agricultural products, and photographs of negro pupils.

University of Chicago, Chicago.
Publication: Journal of Political Economy.

University of Pennsylvania, College Hall, Philadelphia, Pennsylvania.—Publication: Studies in politics and social sciences.

University of Wisconsin, Madison, Wisconsin.
University bulletins in economics, political science, and history.

Vos, Hubert, New York.
Portraits illustrating comparative racial and social types of nations.

Young Men's Christian Association, New York City.
Work for the social improvement of young men.

Young Women's Christian Association, New York City.
Work for the social improvement of young women.

Washington Public Schools, Washington, D. C.
Miniature models from negro life. Miniature model cotton press.

Waterman, Richard, Jr., Chicago, Illinois.
Monograph on the social economy exhibit at the Paris Exposition of 1900.

Whitten, Robert W., Albany, New York.
Monograph on recent social economic legislation.

CLASS 111.

HYGIENE.

Abbott, Samuel W., Boston, Massachusetts.
Monograph on hygiene and sanitation.

Aetna Mineral Water Company, Aetna Springs, California.
Mineral water.

Albany Filter Company, New York.
Exhibit of hygienic water filters.

Alexander & Company, Marietta, Pennsylvania.
Photographs. Vaccine material.

Allouez Mineral Spring Company, Green Bay, Wisconsin.
Allouez manganese water.

American Climatological Association, Philadelphia, Pennsylvania.—Reports.

American Public Health Association, Columbus, Ohio.
Publications.

Atkinson, Dr. W. B., Philadelphia, Pennsylvania.
Publication: Public Health.

Bailey, Leonard C., Washington, D. C.
Model of folding cot.

Bartlett Mineral Water Company, Bartlett Springs, California.—Mineral water.

Bath Department, Boston, Massachusetts.
Photograph.

Bath House Committee, Brookline, Massachusetts.
Photographs.

Bear Lithia Water Company, Bear Lithia, Virginia.
Mineral water.

Bell, Dr. A. W., Brooklyn, New York.
Publication: "The Sanitarium."

Board of Health, Baltimore, Maryland.
Report.

Board of Health, Boston, Massachusetts.
Maps, charts, reports, photographs.

Board of Health, Brookline, Massachusetts.
Photographs.

Board of Health, Buffalo, New York.
Maps, charts.

Board of Health, California State, Sacramento, California.
Reports.

Board of Health, Cambridge, Massachusetts.
Reports.

Board of Health, Charleston, South Carolina.
Report.

Board of Health, Chicago, Illinois.
Reports and diagrams.

Board of Health, Cincinnati, Ohio.
Reports.

Board of Health, Cleveland, Ohio.
Report.

Board of Health, Connecticut State, Hartford, Connecticut.
Charts, maps, reports.

Board of Health, Delaware State, Dover, Dolaware.
Reports.

Board of Health, Detroit, Michigan.
Report.

Board of Health, Florida State, Tallahassee, Florida.
Reports.

Board of Health, Illinois State, Springfield, Illinois.
Reports.

Board of Health, Indiana State, Indianapolis, Indiana.
Charts, reports.

Board of Health, Iowa State, Des Moines, Iowa.
Reports.

Board of Health, Kansas State, Topeka, Kansas.
Reports.

Board of Health, Kentucky State, Frankfort, Kentucky.
Reports.

Board of Health, Maine State, Augusta, Maine.
Reports.

Board of Health, Maryland State, Baltimore, Maryland.
Reports.

Board of Health, Massachusetts State, Boston, Massachusetts.
Maps, charts, reports, photographs.

Board of Health, Michigan State, Lansing, Michigan.
Maps, charts, reports.

Board of Health, Milwaukee, Wisconsin.
Reports.

Board of Health, Minneapolis, Minnesota.
Reports.

Board of Health, Minnesota State, St. Paul, Minnesota.
Maps, charts, reports.

Board of Health, Missouri State, Kansas City, Missouri.
Reports.

Board of Health, National, Washington, D. C.
Reports.

Board of Health, Newark, New Jersey.
Report.

Board of Health, New Hampshire State, Concord, New Hampshire.—Reports.

Board of Health, New Jersey State, Trenton, New Jersey.
Reports.

Board of Health, New Orleans, Louisiana.
Maps, charts.

Board of Health, New York City.
Reports.

Board of Health, New York State, Albany, New York.
Publications, statistics, methods.

Board of Health, Ohio State, Columbus, Ohio.
Reports.

Board of Health, Oklahoma Territory, Oklahoma.
Reports.

Board of Health, Paterson, New Jersey.
Photographs and reports.

Board of Health, Pennsylvania State, Harrisburg, Pennsylvania.—Reports.

Board of Health, Philadelphia, Pennsylvania.
Maps, charts, reports.

Board of Health, Pittsburg, Pennsylvania.
Maps, charts, reports, photographs.

Board of Health, Providence, Rhode Island.
Maps, charts, reports.

Board of Health, Rhode Island State, Providence, Rhode Island.—Charts, maps, reports.

Board of Health, Reading, Pennsylvania.
Report.

Board of Health, St. Louis, Missouri.
Maps, charts, reports.

Board of Health, St. Paul, Minnesota.
Maps, charts, reports.

Board of Health, San Francisco, California.
Report.

Board of Health, South Carolina State, Charleston, South Carolina.—Reports.

Board of Health, Vermont State, Montpelier, Vermont.
Charts, maps, reports.

Board of Health, Washington, D. C.
Reports.

Board of Health, Wisconsin State, Madison, Wisconsin.
Reports.

Board of Health, Worcester, Massachusetts.
Photographs, reports.

Bradley, N. F., Clearfield, Pennsylvania.
Mineral waters.

Cemetery Association, The Cypress Lawn, San Francisco, California.—Photographs.

Cemetery Association, The Lindenwood, Fort Wayne, Indiana.
Photographs.

Cemetery Association, The Odd Fellows, San Francisco, California.—Photographs.

Cemetery, The Forest Home, Company, Milwaukee, Wisconsin.—Photographs.

Cremation Company, The United States, New York.
Views of the Crematory.

Cremation, The Davenport Society for, Davenport, Iowa.
Photographs.

Cremation, The Massachusetts Society for, Boston, Massachusetts.—Photographs.

Cremation, The Philadelphia Society for, Philadelphia, Pennsylvania.—Views of the Crematory.

Crematory, The Gardner Earl Chapel and, Oakwood Cemetery, Troy, New York.—Photographs and plans.

Crematory, The Le Moyne, Washington, Pennsylvania.
Photographs.

Dairy Commission, New Jersey, Trenton, New Jersey.
Reports.

Dairy and Food Division, Michigan, State Department of, Lansing, Michigan.—Reports.

Department of Agriculture, Bureau of Animal Industry, Washington, D. C.—Reports.

Department of the Interior, Census Bureau, Washington, D. C.
Reports, charts.

Department of the Interior, Commission of Labor, Washington, D. C.—Works on sanitation.

Department of Social Economy, United States Commission to Paris Exposition, Chicago.—Photographs, publications, appliances for facilitating diagnoses of infectious diseases.

Department of State, Massachusetts, Boston, Massachusetts.
Reports of registration.

Diabetic and Hygienic Gazette, New York.
Publication.

Experiment Station, State of Connecticut, New Haven, Connecticut.—Photographs.

French Lick Springs, French Lick, Indiana.
Concentrated mineral waters and "Pluto."

Greenbrier White Sulphur Springs, White Sulphur Springs, West Virginia.—Greenbrier sulphureous water.

Health Culture, New York.
Publication.

Home Science Publishing Company, Boston, Massachusetts.
Publication: The American Kitchen Magazine.

Kenney Company, The, 72 Trinity Place, New York.
Flushometer; pamphlets.

Ladd, E. F., Agricultural College, North Dakota.
Publication: The Sanitary Home.

Lytton Springs Sanitarium, Lytton Springs, California.
Mineral water.

Medical Society of the State of New York, Lyons, New York.
Pamphlets on hygiene.

Mott, J. L., Iron Works, 84 Beekman St., New York.
Model bathroom.

Mulford, H. K., & Company, Philadelphia, Pennsylvania.
Antitoxine and vaccine material, photographs.

Natural Mineral Water Company, Saratoga Springs, New York.—Mineral water.

New York State Commission to Paris Exposition, New York.
Model Craig Colony for epileptics.

Parke, Davis & Company, Detroit, Michigan.
Photographs.

Pocono Laboratories, The, Dr. Richard Slee, Swiftwater, Pennsylvania.—Vaccine material, photographs.

Puerto Rico, Island of, San Juan, Puerto Rico.
Circulars on sanitation.

Registration in Medicine, Massachusetts Board of, Boston, Massachusetts.—Reports.

Sanitarium, Colorado, Boulder, Colorado.
Photographs.

Sanitarium, Gabriels, Gabriels, (Adirondacks), New York.
Photographs.

Sanitarium, Loomis, Liberty, New York.
Photographs.

Sanitarium, Sharon, Sharon, Massachusetts.
Photographs.

Sanitary Plumber, The, Lighting and Ventilating Engineer, 32 Lafayette Place, New York.—Publication.

Santa Barbara Mineral Water Company, Santa Barbara, California.—Medicinal mineral water.

Small, Maynard & Company, Boston, Massachusetts.
Publication: Journal of Massachusetts Association of Public Health.

Standard Manufacturing Company, Pittsburg, Pennsylvania.
Bath tubs, water-closets, lavatory sinks, etc.

Street Cleaning Department, New York.
Photographs.

Street Department, Boston, Massachusetts.
Photographs.

Street Department, New York.
Photographs.

Taskimas Mineral Springs Company, Boston, Massachusetts.
Mineral water, carbonized or not.

Taylor-Jorgensen Company, New York.
Missisquoi mineral water.

Trenton Potteries Company, Trenton, New Jersey.
Sanitary earthenware and vitrified china bath tubs and water closets.

Vital Statistics, Division of, Michigan State Department, Lansing, Michigan.

Von Ruck, Dr. C., Asheville, North Carolina.
Publication: The Journal of Tuberculosis.

Williams, Daniel H., Chicago.
Photographs and reports of special surgical cases.

CLASS 112.

PUBLIC CHARITIES.

Allen, Edward E., Overbrook, Pennsylvania.
Monograph on education of defectives.

Almshouse, Massachusetts State, Tewksbury, Massachusetts.
Photographs and statistics.

Audit and Control, Board of Washington State, Tacoma, Washington.—Publications, statistics, photographs.

Blind, School for the, New York State, Batavia, New York.
Publications; statistics; photographs.

Blind, Institute for the Instruction of, Overbrook, Pennsylvania.—Photographs, statistics, charts, publications, pupils' work.

Brown, Herbert S., New York.
Monograph on public and private charities.

Charitable Institutions, Board of Trustees of, Kansas State, Topeka, Kansas.—Publications; statistics; photographs.

Charities and Correction, Board of, Colorado State, Denver, Colorado.—Publications, statistics, photographs.

Charities and Correction, Board of, District of Columbia, Washington, D. C.—Reports.

Charities and Correction, Board of, Missouri State, Kansas City, Missouri.—Publications; statistics; photographs.

Charities and Correction, Board of, New Hampshire State, Concord, New Hampshire.—Publications; statistics; photographs.

Charities and Correction, Board of, New York State, Albany, New York.—Publications; statistics; photographs.

Charities and Correction, Board of, South Dakota State, Bridgewater, South Dakota.—Publications; statistics; photographs.

Charities and Correction, National Conference, Cincinnati, Ohio.—Reports.

Charities and Reform, Board of, Wyoming State, Cheyenne, Wyoming.—Publications; statistics; photographs.

Charities, Associated, Boston, Massachusetts.
Statistics, reports.

Charities, Associated, Society, Charleston, South Carolina.
Reports.

Charities, Associated, Society, Charleston, West Virginia.
Reports.

Charities, Associated, Janesville, Wisconsin.
Reports.

Charities, Associated, Oakland, California.
Reports.

Charities, Associated, Pueblo, Colorado.
Reports.

Charities, Associated, Wilmington, Delaware.
Reports.

Charities, Association, United, Akron, Ohio.
Reports.

Charities, Board of, Connecticut State, Hartford, Connecticut.
Publications; statistics; photographs.

Charities, Board of, Indiana State, Indianapolis, Indiana.
Publications; statistics; photographs.

Charities, Board of, Ohio State, Columbus, Ohio.
Photographs.

Charities, Board of, New York State, Albany, New York.
Publications; statistics; photographs.

Charities, Board of, Tennessee State, Nashville, Tennessee.
Publications; statistics; photographs.

Charities, Public, Board of, North Carolina State, Raleigh, North Carolina.—Publications; statistics; photographs.

Charities, Public, Board of, Pennsylvania State, Philadelphia, Pennsylvania.—Publications; statistics; photographs.

Charity and Beneficent Organization, Baltimore, Maryland.
Photographs, reports.

Charity, Board of, California State, Sacramento, California.
Photographs of buildings.

Charity, Board of, Illinois State, Springfield, Illinois.
Photographs of buildings.

Charity, Board of, Maine State, Augusta, Maine.
Photographs; reports; statistics.

Charity, Board of, Maryland State, Baltimore, Maryland.
Photographs of buildings.

Charity, Board of, Massachusetts State, Boston, Massachu- setts.—Publications, statistics, photographs.

Charity, Board of, Michigan State, Lansing, Michigan.
Photographs of buildings.

Charity, Board of, Minnesota State, St. Paul, Minnesota.
Photographs of buildings.

Charity, Board of, New Jersey State, Trenton, New Jersey.
Photographs of buildings.

Children's Aid Society, Boston, Massachusetts.
Statistics; photographs.

Children's Aid Society of Pennsylvania, Philadelphia, Penn- sylvania.—Photographs of homes used by the society.

Children's Hospital, Boston, Massachusetts.
Reports.

Children's Institutions Department, Boston, Massachusetts.
Photographs; statistics.

Commission on Defective, Delinquent and Dependent Children, New Jersey State, Elizabeth, New Jersey.—Publications; statistics; photographs.

Consumptives, Free Home for, Quincy Street, Dorchester, Massachusetts.—Photographs.

Consumptives, Grove Hall Home for, Boston, Massachusetts.
Photographs.

Consumptives, The Massachusetts Hospital for, Rutland, Massachusetts.—Photographs.

Consumptives, The St. Joseph's Hospital for, New York.
Lithograph.

Consumptives, The Seton Hospital for, Spuyten Duyvil, New York.—Photographs.

Control, Board of, Iowa State Institutions, Des Moines, Iowa.
Publications, statistics, photographs.

Control, Board of, Wisconsin State, Madison, Wisconsin.
Publications; statistics; photographs.

Correction and Charities, Board of, Michigan State, Lansing, Michigan.—Publications; statistics; photographs.

Correction and Charities, Board of, Minnesota State, St. Paul, Minnesota.—Publications, statistics, photographs.

Deaf and Blind, Institution for Instruction of, Berkeley, California.—Photographs.

Deaf and Blind, School for, North Carolina State, Raleigh, North Carolina.—Photographs; reports; catalogues.

Deaf and Dumb, Columbia Institution for Instruction of, Washington, D. C.—Charts; publications; photographs; illustrative work of pupils.

Deaf and Dumb, Institute for the Instruction of the, New York City.—Photographs, pupils' work.

Deaf, School for, Nebraska State, Omaha, Nebraska.
Photographs; publications; pupils' work.

Department of Social Economy, U. S. Commission to Paris, Chicago.—Collective exhibit of public and private charities in the United States.

Feeble Minded, School for, Massachusetts State, Waverly, Massachusetts.—Photographs.

Feeble Minded, School for, Minnesota State, Faribault, Minnesota.—Photographs of grounds and buildings.

Feeble Minded, Home for, Wisconsin State, Chippewa Falls, Wisconsin.—Photographs of institution.

Guild, St. John's, 501 Fifth Ave., New York.
Photographs of a floating hospital.

Heimath, Isabella, New York.
Photographs.

Home for Aged Couples, Trustees of Massachusetts, Boston, Massachusetts.—Reports.

Home for Aged Men, Trustees of Massachusetts, Boston, Massachusetts.—Reports.

Home for Aged Women, Trustees of Massachusetts, Boston, Massachusetts.—Reports.

Home, Presbyterian, for Aged Women, New York.
Reports.

Home, Illinois Soldiers', Quincy, Illinois.
Photographs of buildings.

Home, Massachusetts Soldiers', Boston, Massachusetts.
Photographs; reports.

Home, Woman's Relief Corps, Oxford, New York.
Photographs.

Home, Working Women's Temporary, Boston, Massachusetts.
Statistics.

Hospital, Boston City, Boston, Massachusetts.
Reports.

Hospital, Cambridge, The Trustees of, Cambridge, Massachusetts.—Photographs.

Hospital, Massachusetts General, Boston, Massachusetts.
Reports.

Hospital, Johns Hopkins, Baltimore, Maryland.
Reports.

Hospital, Laura Franklin, for Children, New York.
Miniature model ward and operating rooms.

Hospital, Morton, Taunton, Massachusetts.
Reports.

Hospital, Pennsylvania, Philadelphia, Pennsylvania.
History of Hospital.

Hospital, Presbyterian, 70th St. and Madison Ave., New York.
Model ward, containing six beds and other furniture; dolls in costume of nurses in training; furniture and apparatus showing the best methods of treating medical and surgical maladies.

Hospital for Children, St. Mary's Free, New York.
Model ward in hospital.

House of Refuge—Boys' Department, Glen Mills, Pennsylvania.—Publications, photographs.

Insane, Connecticut Hospital for the, Middletown, Connecticut.—Photographs.

Insanity, Massachusetts State Board of, Boston, Massachusetts.—Photographs, statistics.

Keen, Dora, Philadelphia, Pennsylvania.
Statistics and charts showing work for defectives.

Lancaster School, Trustees of, Lancaster, Massachusetts.
Photographs; statistics.

Lyman School, Trustees of, Westboro, Massachusetts.
Photographs; charts; models of sloyd work.

Lunacy Commission, Maryland State, Baltimore, Maryland.
Publications; photographs; statistics.

Lunacy Commission, New York State, Albany, New York.
Collective exhibit of photographs of hospitals and asylums for insane.

New York Orphan Asylum, New York.
Reports.

Pauper Institutions Department, Boston, Massachusetts.
Photographs; statistics.

Poor, Overseers of the, Boston, Massachusetts.
Photographs and statistics of Wayfarer's Lodge and Temporary Home.

Poor, Overseers of the, Brockton, Massachusetts.
Reports; statistics; photographs.

Poor, Overseers of the, Fairhaven, Massachusetts.
Reports; statistics; photographs.

Poor, Overseers of the, Natick, Massachusetts.
Reports; statistics; photographs.

Poor, Overseers of the, Worcester, Massachusetts.
Reports; statistics; photographs.

Prevention of Cruelty to Children, Illinois Society for the, Chicago.—Reports.

Prison Commission, Georgia State, Atlanta, Georgia.
Publications; statistics; photographs.

Public Lands and Buildings, Board of, Nebraska State, Lincoln, Nebraska.—Publications, statistics, photographs.

GROUP XVIII.

MILITARY AND NAVAL.

WILLARD A. SMITH, DIRECTOR.

EXHIBITS REPRESENTING THE ARMY AND NAVY

OF THE

UNITED STATES OF AMERICA.

CLASS 116.

ORDNANCE AND EQUIPMENT FOR ARTILLERY.

Department of the Navy, Bureau of Ordnance.
Photographs of Naval Gun Factory and of service arms; models of steel rifles; sample cartridge cases, cutlasses and sword bayonets.

Department of the Navy, Navy Yard, New York.
Photographs showing the equipment and facilities of the Navy Yard.

Bethlehem Steel Company, South Bethlehem, Pennsylvania.
Photographs illustrating the manufacture of armor plate, ordnance, and hollow or solid forged shafting, and general forgings and castings.
Chicago, 1893, medal.

Steele, W. F., New York.
Photographs of gas plant installed in Forge Shop of U. S. Naval Gun Factory, Washington, D. C.

CLASS 117.

MILITARY ENGINEERING AND ACCESSORIES.

Department of War, Signal Corps United States Army.
Photographs of field operations during Philippine insurrection; field telegraphs and telephones; signal flags; field signal apparatus.

CLASS 118.

NAVAL CONSTRUCTION, HYDRAULICS, TORPEDOES.

Department of the Navy, Washington, D. C.
Photographs of the docks, shops, and plant at the Navy Yard, New York, of ships and men, showing life and training of ships' crews.

Department of the Navy, Bureau of Construction and Repair.
Models and photographs of naval vessels, full and in section; models of ship appliances; photographs of U. S. naval vessels; naval electrical apparatus.

Department of the Navy, Bureau of Equipment.
Standard marine electrical apparatus and accessories, furnished by General Electric Company; samples of rope, flags, pennants, and signals.

Department of the Navy, Bureau of Navigation, Naval Academy.—Photographs illustrating characteristic phases of cadet life and training at the U. S. Naval Academy, Annapolis, Maryland.

Department of the Navy, Bureau of Ordnance.
Electric motor for ammunition hoist, rammer, or elevating; photographs showing manufacture of and practice with automobile and spar torpedoes.

Department of the Navy, Bureau of Steam Engineering.
Photographs, drawings and blue prints of types of engines for United States naval vessels; model of beam engine of a Pacific mail steamer.

American Ship Windlass Company, Providence, Rhode Island.
Model of a steam capstan.

Babcock & Wilcox Company, New York.
Photographs and plans, and a forged steel header of the Babcock & Wilcox water tube boilers of the U. S. S. Chicago and the U. S. S. Atlanta.

Blake, George F., Manufacturing Company, New York City.
Model of a Blake vertical twin air pump.

Bowles, F. T., Naval Constructor, U. S. Navy.
Full size working model of an electrically operated water-tight door.

Flagg, Ernest, Architect, 35 Wall St., New York.
Drawings and photographs of the buildings and grounds of the United States Naval Academy, Annapolis, Maryland.

General Electric Company, Schenectady, New York.
Photographs of electrical apparatus manufactured for the United States Navy and the United States Army.

Hichborn, Philip, Chief Constructor, U. S. Navy.
Models of barbette turret for 12-inch breech loading rifles and of Franklin life-buoy.

Holland Torpedo Boat Company, New York City.
Model of Holland submarine torpedo boat Type 7, 1900, designed to run at the surface or submerged.

Melville, George W., Engineer in Chief, U. S. Navy.
Model of a water-tight door designed to be operated by hand or power.

Page Brothers & Company, Boston, Massachusetts.
Marine electrical fixtures, U. S. Navy standard.

Pain's Fireworks Company, 12 Park Place, New York City.
Series of life-saving and signal rockets and signal lights.

Roelker, H. B., 41 Maiden Lane, New York.
Photographs of Allen Dense Air Ice Machine, as supplied to vessels of the U. S. Navy.

Sellers, William, & Company, Philadelphia, Pennsylvania.
Model of a 40-ton locomotive dock crane; capacity 64,000 pounds at 70 feet radius. Highest hook position 56 feet above rails; track gauge 18 feet; trucks equalize load on wheels and travel round on curve of 66 feet radius.

Paris, 1867, gold medal; Vienna, 1873, diploma of honor and

five medals; Philadelphia, 1876, three medals; Paris, 1889, grand prix.

Williamson Brothers Company, Philadelphia, Pennsylvania.
Model of steam steering gear.

CLASS 119.

CARTOGRAPHY—HYDROGRAPHY.

VARIOUS INSTRUMENTS.

Department of the Navy, Washington, D. C.
Miscellaneous publications relating to Arctic exploration, canals, dock yards, gun foundries and armor factories.

Department of the Navy, Bureau of Equipment.
Publications showing the flags of maritime nations and the international code of signals. Patent log. Sounding apparatus.

Department of the Navy, Bureau of Equipment, Compass Office.—United States Navy Standard compensating binnacle, complete with correctors; Pelorus.

Department of the Navy, Bureau of Equipment, Hydrographic Office.—Publications relating to hydrography, meteorology and navigation; chart construction; characteristic charts; relief map.

Department of the Navy, Bureau of Equipment, Naval Observ- atory.—Photographs of buildings and instruments; records of astronomical observations; navigation instruments; observatory time.

Department of the Navy, Bureau of Equipment, Nautical Almanac Office.—The American Ephemeris and Nautical Almanac from 1855 to 1902.

Department of the Navy, Bureau of Navigation.
Report of the Chief of Bureau for 1898 and Appendix to same.

Department of the Navy, Bureau of Navigation, Office of Naval Intelligence.—Publications: General Information Series; Coaling, Docking and Repair Facilities of the World; War Notes; War Series.

Negus, T. S. & J. D., New York.
Marine chronometers; conning tower binnacle; torpedo boat compensating binnacle.

Ritchie, E. S., & Sons, Boston, Massachusetts.
Instruments of navigation; consisting of compasses, azimuth circles, pelorus, and magnetic instruments.

CLASS 120.

ADMINISTRATIVE DEPARTMENTS.

Department of the Navy, Washington, D. C.
Seal of the Navy Department; medals voted by Congress to United States Naval Officers; photographs of ships and men, illustrating life and training in the navy.

Department of the Navy, Bureau of Supplies and Accounts.
Uniforms of petty officers and seamen of the United States Navy.

Quartermaster's Department, United States Marine Corps.
Uniforms, arms and accoutrements of the non-commissioned officers, enlisted men and bandsmen of the U. S. Marine Corps.

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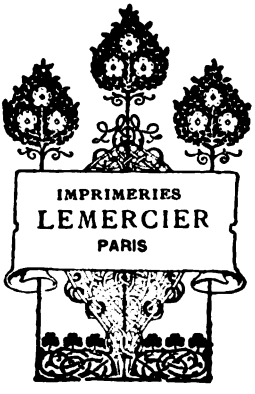
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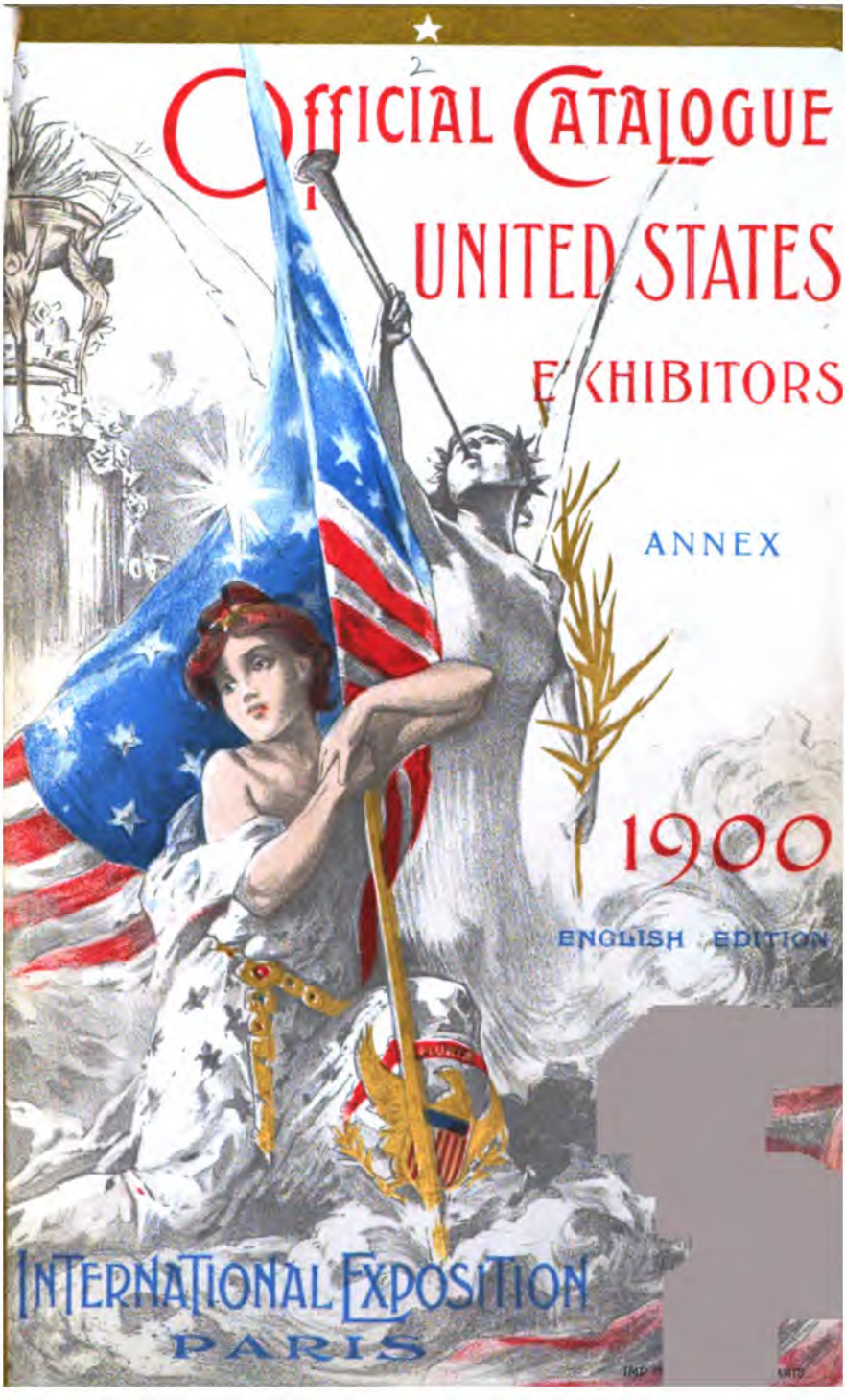

INTERNATIONAL EXPOSITION

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THE INTERNATIONAL UNIVERSAL EXHIBITION OF 1900

CHRONICLES OF THE WORLD'S GREAT PRODUCTS

VOLUME ANNEXE

Official Catalogue

United States

EXHIBITORS

IMPRIMERIES LEMERCIER — PARIS

L. DANEL — LILLE

M. E. Loubet.
President of the Republic.

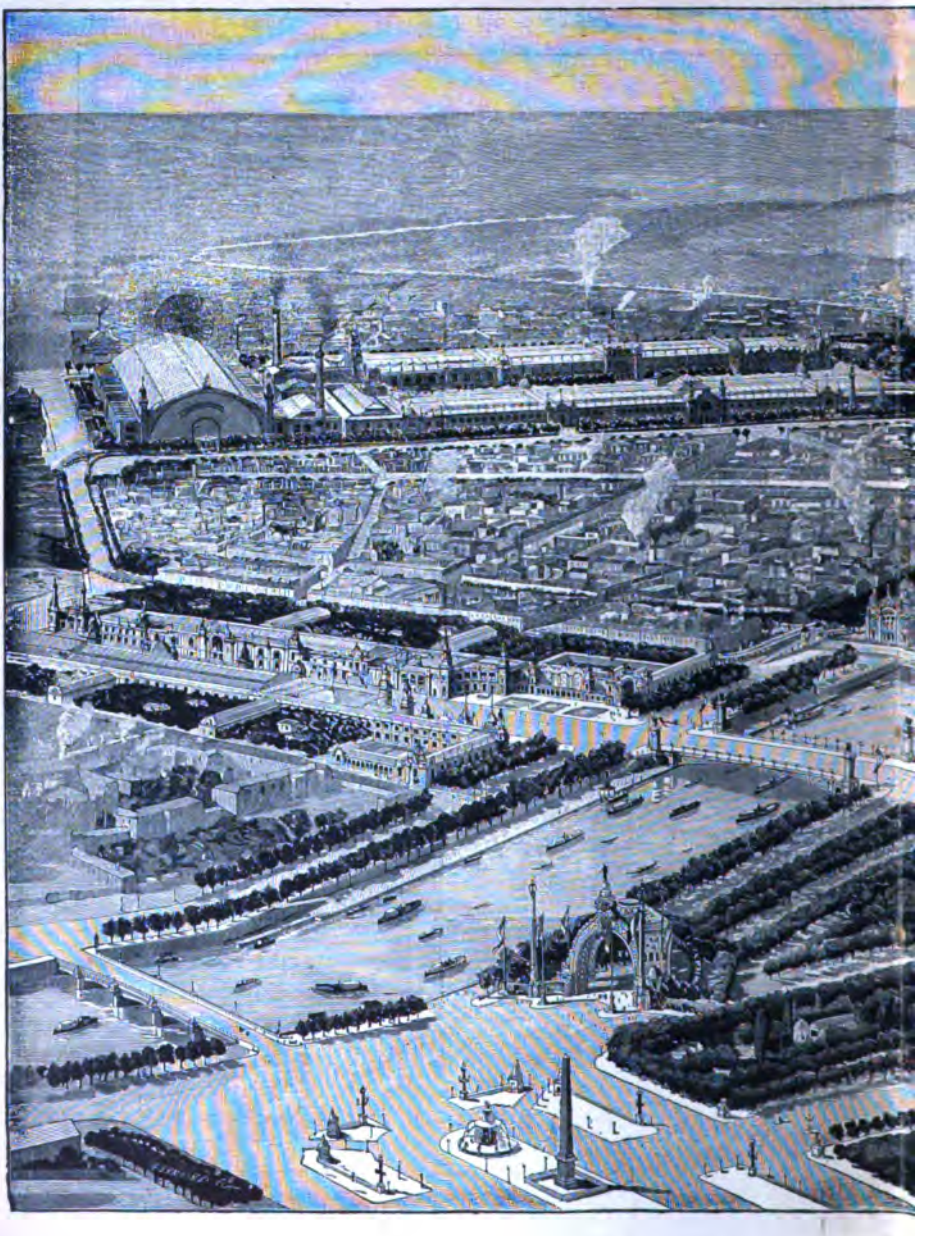
THE PRESIDENTIAL PROCESSION AT THE OFFICIAL OPENING. APRIL 14, 1900.

THE MEMORIAL ENTRANCE.

PREFACE.

"AMONG the many difficulties to be overcome, the most formidable, perhaps, is due to the fact that the different branches of artistic production, agricultural or industrial, have innumerable points of contact overlapping each other, intermingling almost to the point of confusion.

"Neither classification or even groups can be given an absolutely defined ground. Their limits are possibly difficult to define.



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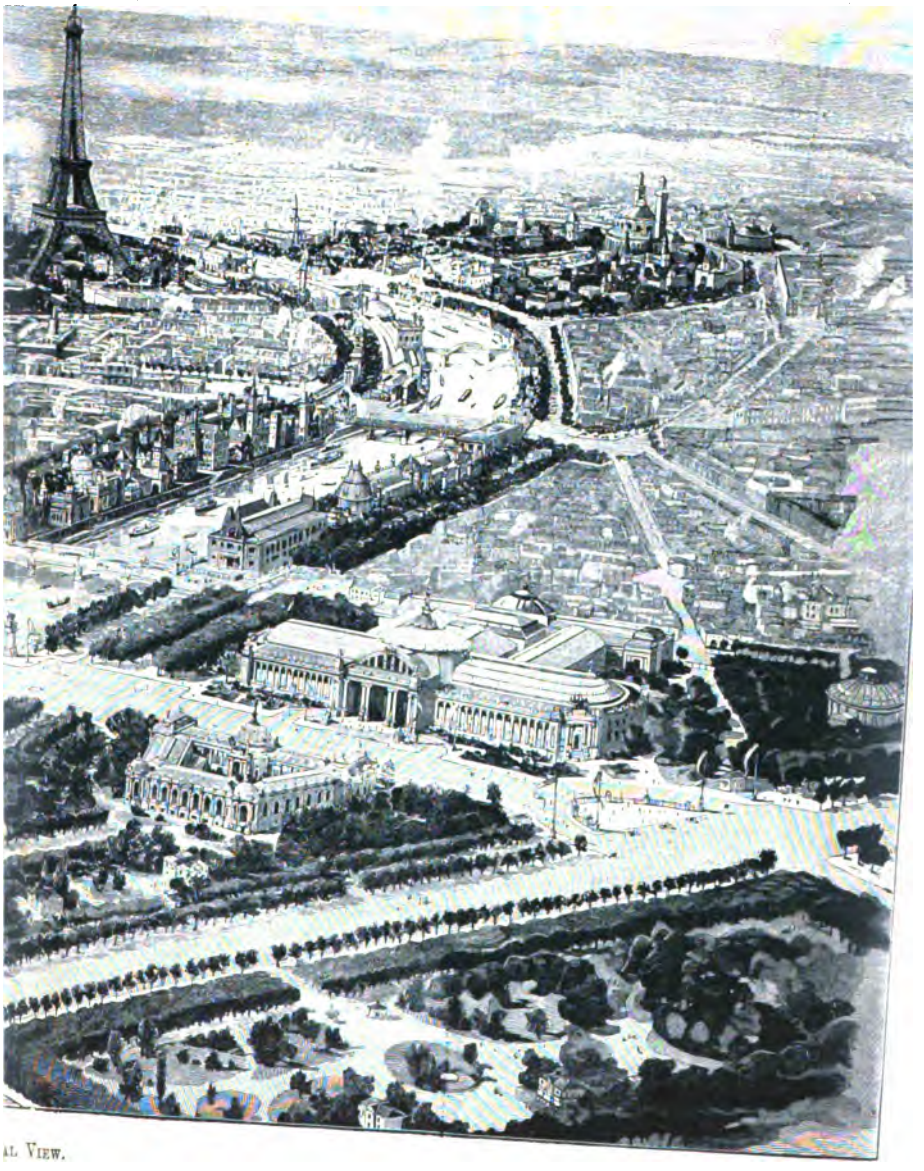


AL VIEW.

THE GREAT HALL.

"In many instances exhibits are of such a mixed character that a natural hesitation arises as to which category they should really be placed under. They may be appreciated for their intrinsic qualities or for the uses to which they may be put. A large number change their classification, or even group, by their successive developments. Wool, to cite only one example, a product derived from sheep-farming, becomes the principal material in the weaving of stuffs for clothing, for curtains and for furniture. Both the public and the jury, therefore, feel a great difficulty in giving a decisive verdict unless the varied elementary principles are before them. Duplication is necessary to overcome this difficulty, and the varied classes so closely allied are placed together, the juries being authorised to render each other every assistance.

"We have taken as a basis for our actual classification that of 1889, and, aided by the legitimate criticisms it evoked, and by the experience of foreign exhibitions, we have entirely reconstructed it."

Thus runs the remarkable report of Mr. Alfred Picard, Chief Commissioner of the 1900 Exhibition. We could not do better than

Cliché Pirou.

M. Alfred Picard.
General Commissioner.

quote these clear and precise phrases, which demonstrate so plainly the aim of the Exhibition and the difficulties to be overcome to bring about a successful issue.

Happily, France is a country where one is never daunted, where difficulties are but an incentive, where courage and invention are invincible qualities.

Phot. Pirou.

M. DELAUNAY-BELLEVILLE.
Chief Director of the Working Department.

This is the reason that, notwithstanding so many excellent foreign exhibitions in the various capitals of the world, so many successful efforts, the Paris Exhibitions, as a rule, and this one in particular, remain those to which the eyes of the whole world are attracted, to which the world flocks in its masses, exhibitors and visitors, a crowd covetous of this supreme renown, this unequalled splendour, or of this remarkable march of intellect.

It is at these moments, which return periodically after long anticipation, that our country finds, indubitably, once more all its artistic and industrial glory, and it is for that reason that the restless energy we have all displayed in this Exhibition is fully justified by the importance of the end attained.

We must each time build larger and more perfect, each time rise

Phot. Piron.

M. Stephen Dervillé.
Assistant General Director of the Working Department.

to a higher level, and notwithstanding the apparent impossibility of success, the result is there to prove beyond a doubt that we have reached the unattainable.

What we have attempted to-day, and succeeded in doing to a great extent, is the absolute classification of the exhibits. The groups and classes have been so divided as not to be entirely isolated from the general attractions, nor relegated to some unfrequented spot. Each

hour of study is rewarded by one minute of repose; in place of an arid exhibition will be found one full of variety.

Over the entire extent of the Exhibition the useful is blended with the ornamental.

In 1889 we had but one special attraction—the Eiffel Tower; in 1900 we have several special attractions, but they are cleverly set all over

Phot. Blanc.

M. Bouvard.
Director of the Architectural Department.

the grounds, distributed harmoniously and symmetrically, so arranged that they form part of the general scheme, instead of there being but one attraction, and that all powerful.

The Exhibition called into being nearly all the buildings which shelter its products; it has also created a new railway, a new bridge, and has possibly changed one of Paris' most ancient customs, the classic promenade on the Champs-Elysées.

The two quadrilaterals which form the Exhibition, the one containing the two Palaces, the Alexandra Bridge, the Esplanade of the Invalides, the other the Trocadéro, followed by a series of pavilions from the Great Hall to the Military School, are joined by the two banks of the Seine, which are also lined with palaces and pavilions. Thus was resolved the arduous problem: find the necessary space,

Phot. Boyer.

M. Grison.
Financial Director.

allowing all the buildings to appear as one homogeneous whole, although necessarily scattered and divided by the existing monuments, streets, and houses.

Among the many things impossible to enumerate in the restricted limits of these introductory words, it is permissible to draw special attention to the two Palaces which have been the cynosure of all eyes since their construction was finally decided upon, the famous bridge

of which the Tsar laid the foundation stone on his memorable visit to Paris, and the Memorial Entrance destined to admit those vast hordes of visitors whose arrival we, with every justification, fully expect.

The two Palaces are designated by two adjectives, by which they will doubtless continue to be known, sanctioned, as it were, by custom.

The "Grand" Palace's principal front, like the "Petit" one, faces

Phot. Larger.

M. Henri Chardon.
General Secretary.

the Avenue Nicolas II., the latter forming a continuation of the Alexander III. Bridge.

This front is in the Roman style, the other portions of the building being seemingly suggested by the *Chateau* of Versailles.

The architects, Messrs. Daglane, Thomas and Louvet, designed the building in the form of a T, as being the most appropriate for the different purposes for which it has been erected—firstly, the

THE AVENUE NICHOLAS II. AND THE PALACE OF FINE ARTS.

Exhibition, afterwards the annual "*Salon*," horse shows and special exhibitions, similar, in fact, to those fêtes and functions which formerly took place at the "Palais d'Industrie," recently pulled down.

From the ornamental point of view, the Grand Palace has a most noble colonnade in the purest style, with bas-reliefs in stone, and, on the Avenue d'Antin side, the bas-reliefs in poly-chromatic sandstone, by Messrs. Barrias and Blanc, form a pleasant variation.

Female statues allegorize the Grecian, Roman, Egyptian and Byzantine arts and the four classic arts—Painting, Engraving, Architecture and Sculpture.

Smaller, and possibly more to the general taste, the "Petit" Palace, to the right on entering by the Memorial Hall, is due to M. Girault, the architect. Its essential feature on the Avenue Nicolas II. is a semi-circular porch, surmounted by a dome, and flanked by two pavilions with triangular pediments. These two pavilions are set off by columns surrounding the three bays, and on the flank fronts statues alternate with the columns between the arched bays. A light balustrade overlooking the walls gives them a most graceful elegance.

This Palace is devoted to a retrospective exhibition of French arts. Needless to say, therefore, that its elegant roof will shelter all that is purest and best of all styles. The Alexander Bridge completes the picture. It was said to be indispensable. There is no doubt that, in any case, it is perfect, at once striking a most picturesque and practical note.

It consists of a single span of not less than 108 mètres opening, in addition to which the important problem has been solved of while making it sufficiently high to offer no inconvenience to the navigation of the river, it in no way obstructs the perspective of the Champs-Elysées and the Esplanade of the Invalides, truly a chef d'œuvre in its way.

Without pausing at the Palace of the Esplanade, just one word as to the Memorial Entrance. The principal idea of the architect (M. René Binet) was to facilitate the admission of the crowd without stoppage or confusion. The central dome is supported by three large arches, each 20 mètres wide, arranged in a triangle. Under the semi-circle so formed are placed 36 turnstiles enabling 40,000 persons to enter the Exhibition per hour.

THE ALEXANDER BRIDGE

The decorative effects in the open space where these lordly palaces stand will be largely due to Electricity, the statue of which will cause as much discussion as that of the "Parisienne" which overlooks the entrance.

No apology is needed for inserting here a few details of the career of the man who has been the life and soul of this glorious creation, M. Alfred Picard, Chief Commissioner of the Exhibition of 1900.

M. Alfred Picard was born in Strasburg on December 21, 1844.

After deep literary study, he eventually drifted towards the Polytechnic School, where he was admitted in 1862.

Engineering-pupil of the Roads and Bridges Department in 1864, M. Picard was three years later entrusted with a mission to the East and the Suez Canal, the works in connection with the latter being then in full swing.

In 1870, being in Metz, where he was in charge of the Sarre Coal Mine, and the Dieuze Salt Mine Canals, he remained during the siege and took part in the defensive works. After the surrender M. Picard effected his escape and served in the Army of the Loire.

Upon peace being signed, he was dispatched by the Government to Nancy, where he united to his civil duties those of Commander of the Engineers' Corps of the region of Verdun during the German occupation.

In this latter capacity he organised temporary barracks in the towns of Verdun, Étain, and Clermont-en-Argonne. The works costing forty thousand pounds were, notwithstanding innumerable difficulties, finished on the very day they were promised. M. Thiers recognised this success by conferring on M. Picard the Cross of Chevalier of the Legion d'Honneur; the Verdun Municipal Council also signalling the event by an address of thanks and congratulation.

From 1872 to 1879 M. Picard had in his department charge of the State Railways, a portion of the Canal from the Maine to the Rhine, the Canal de l'Est, and the preliminary works of the canal from Dombasie to Saint Dié. He also assisted the military authorities in the waterworks for the new frontier forts.

Among the many notable works for which he has been responsible may be cited the Paroy reservoir, the elevating machinery at Valcourt, Pierre la Treiche, and Vacoir, a stonework bridge having a skew of

THE GRAND PALACE OF FINE ARTS.

INTERIOR OF THE GRAND PALACE.— SCULPTURE.

THE PALACE OF ELECTRICITY AND THE CHATEAU D'EAU.

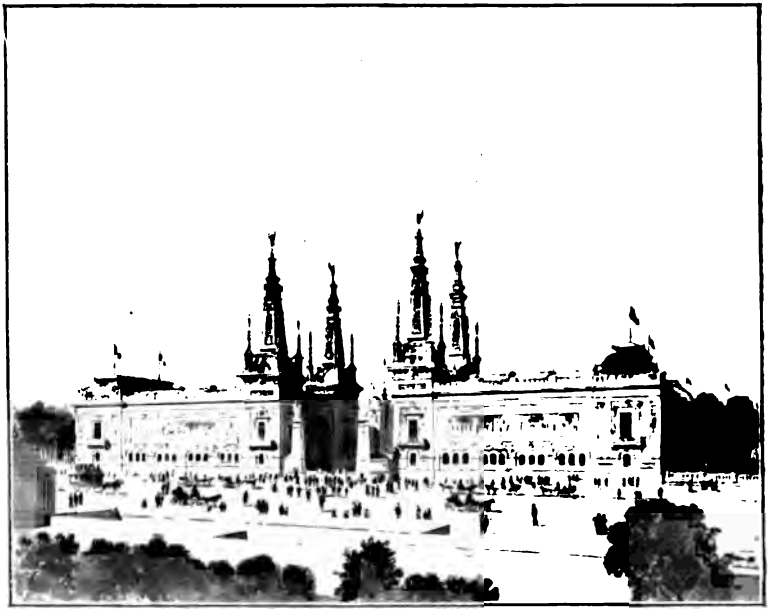
45 degrees at the Kæurs Pass and a sloping roof tunnel, with novel gear, as interesting from the scientific as from the practical point of view.

Two operations fully equal to any of those of American daring also redound to his credit, the underpinning of the piles of a bridge on the Meurthe and the raising in one solid block of a stonework arch.

Called to the Central Administration of Public Works in 1880, M. Picard was successively appointed Director of the Cabinet and Staff, Director of the Roads, Navigation and Mines, Director of the Railway, Chief Director of the Roads and Bridges, Mines and Railways. Councillor of the State on special occasions in 1881, a year later Councillor of the State, he has been, since January, 1886,

THE "PETIT" PALACE OF FINE ARTS.

THE FOREIGN PAVILIONS.



THE PALACE OF THE ESPLANADE.
View taken from the Invalides.

President in the Departmental State Council of the Public Works, Agriculture, Commerce, Industry and Post and Telegraph sections.

He also presides at the Consulting Committee of Railways, the mixed Commission of Public Works, the Commission for the Verification of Railway Accounts, the Permanent Commission on the Customs Imports, the Commission controlling the monetary circulation, and is a member of several other committees and councils.

At the Universal Exhibition of 1889 M. Picard was elected President of the committees and juries in the Railway class and Mechanical group, as well as that of the Exhibition Retrospective Committee on the means of transport.

M. Tirard, the then President of the Council, Minister of Com-

merce, Industry and the Colonies, appointed him Chief Recorder of the Exhibition.

At the same time the International Railway Congress selected him as President for the Paris session. Six years ago he visited St. Petersburg as chief French delegate to the Congress sitting there.

Chief Engineer of the Roads and Bridges on June 1st, 1880, M. Picard was promoted to Chief Inspector of the second class on

PALACE OF DIVERS INDUSTRIES.
Esplanade des Invalides.

April 1st, 1887, and Chief Inspector of the first class on October 1st, 1891.

He was nominated Chief Commissioner of the Universal Exhibition of 1900 by a decree dated September 9th, 1898.

Officer of the Legion d'Honneur in 1881, Commander in 1885, Grand Officer in 1889, M. Picard was, amidst the acclamations of his colleagues, awarded the Grand Cross of the Legion d'Honneur at the inauguration of the Exhibition of 1900.

ESPLANADE DES INVALIDES.

THE CHAMP DE MARS.
View taken from the foot of the Eiffel Tower.

THE FRENCH COLONIES AT THE TROCADÉRO.
Dahomey.

We must unfortunately, owing to want of space, rest content with M. Alfred Picard's biography, for as M. Millerand stated in his most eloquent speech at the opening of the Exhibition: "It would be impossible, without committing a grave injustice, to select any name or names from among the brilliant cluster of artists, engineers, contractors, and manufacturers who have been the artisans of these wonders. I would thank them and that innumerable legion of anonymous workers whose hands have erected these palaces in presenting the public's respectful gratitude to their chief, the great

engineer, the unequalled administrator, that man of modesty, of work and courage who has brought them through all their difficulties to such a glorious conclusion."

It remains only for us to associate ourselves with the wishes of the President of the Republic: "May this work be a work of Harmony, Peace, and Progress, and ephemeral as its decorations may be, still not a work in vain." Let us be convinced, with him, that the pacific meeting of the various Governments of the world will not remain without fruit, and that thanks to the constant reiteration of certain generous thoughts which have re-echoed through the last moments of the dying century, the twentieth century will see more fraternity shine on less misery of every kind, and that possibly we shall have shortly passed an important period in the belated evolution of labour towards happiness and of man towards humanity.

THE ALGERIAN PAVILION.

OLD PARIS. GENERAL VIEW.

THE EXHIBITS

IN THE

SECTIONS OF THE UNITED STATES.

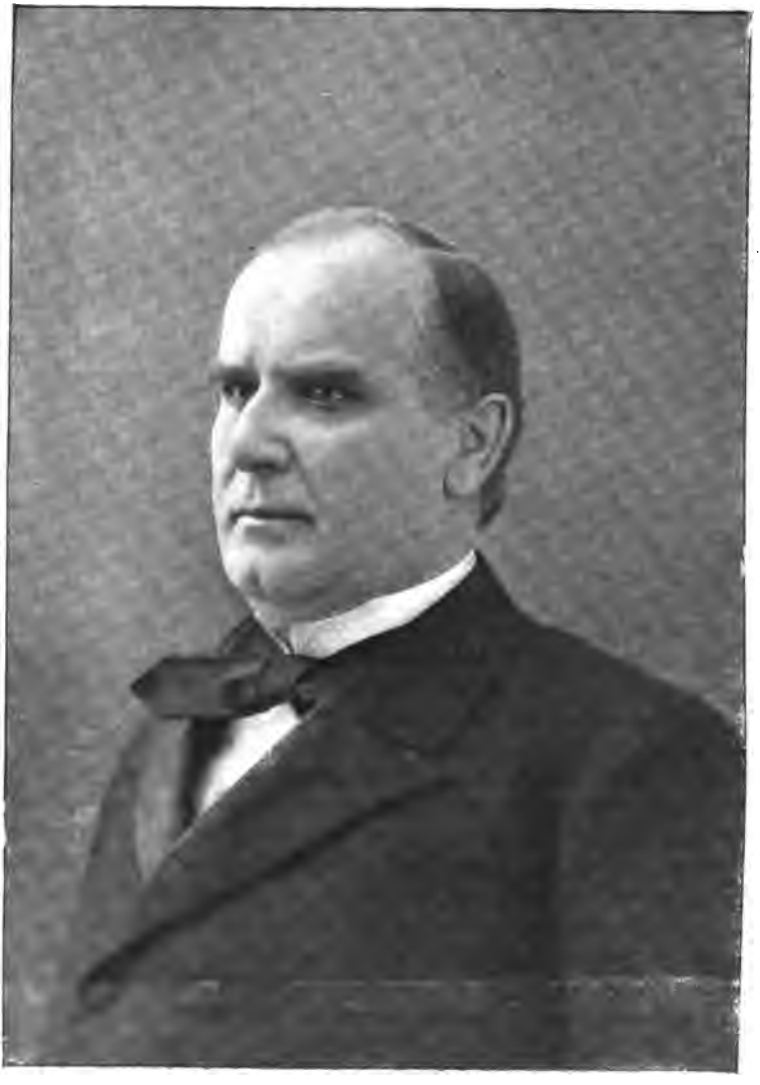
The Republic of France issued to her sister republic over the sea an invitation to unite in the International Universal Exposition to be held in Paris in the year 1900, and this invitation the people of the United States accepted with the most cordial gratification. The time of this celebration is the latest landmark of history, marking the division between the expiring century, luminous in its events, and the century to come, yet more alluring with its expectations. The nation which has undertaken the enterprise is of all nations the best fitted in genius, in versatility, in *le savoir faire*, to carry it to a successful issue. The place is the *omphalos* of the world.

To the people of the United States the invitation was a challenge. Only a few years before, upon the farther shore of a remote inland sea, from whose sands the track of the deer and the print of the moccasin were hardly effaced, whose breezes were yet fragrant with the aromatic odors of fir and cedar pine, that people had evoked an exposition magnificent in outline and perfect in detail, springing up like an exhalation, revealing a strength as of the hills, a breadth as of a western sky, the repose of true grandeur, tinged with the radiance of the aurora of the dawn. To the success of the exposition at the White City the contributions of the French people, acting as individuals and as a nation, were worthy and abundant. Their generous assistance was cordially received and kindly remembered. When, therefore, that nation, with a spirit of courteous rivalry not less debonair than that displayed by their fathers to our fathers upon the Field of the Cloth of Gold, said to the people of the United States, "Come over the sea, and

let us show you how we make an exposition," the people of the United States could not fail to respond.

Nor is this all. Passing by the belief prevalent in every American of youth and culture that Paris and paradise differ in spelling only, one may not fail to note the strong undercurrent of friendship for the French people everywhere prevalent among the people of the United States. It is involved in all the traditions of the nation, and is perpetuated by the instruction given even in its elementary schools. Every schoolboy knows about the material aid given by the French king at the crisis of our revolutionary struggle. He knows of Lafayette and De Grasse and Rochambeau, and of the victory at Yorktown. He knows, too, that fully half of the great continental domain of the United States was once French, under the name of Louisiana. He finds the names of French explorers and missionaries, like Champlain and La Salle, Marquette and Hennepin, with Detroit and Illinois, Saint Louis and New Orleans, written all over the maps of the States. The children of the United States will erect in the heart of Paris, in the park of the Louvre, a memento of their affection for France in the statue which will perpetuate the beloved name of Lafayette.

Beyond all considerations such as we have suggested, it was recognised by every intelligent man of affairs that the time had fully come when the United States of North America should assume its proper place in all the international assemblings of the nations of the world. Whether the subjects to be discussed at such conferences are the methods of conducting war or the means of preserving peace, whether they are scientific, social, educational or commercial, the condition of the United States as to area of country, number of inhabitants, wealth accumulated and power of accumulation, the intelligence of her people, their skill, energy, and aggressiveness, their productive and commercial ability and attainment—all the elements of national greatness are present in such degree as to make it incumbent upon her to assert her position among the nations, to take a seat in international councils, and to have a voice in deliberations which concern the welfare of the world. For more than a century the United States has attended strictly to her own affairs, and while she will retain that attitude, she may not forget that her affairs are



William Mc Kinley,
President of the United States.

inextricably involved in the affairs that concern one common humanity.

But responsibilities and duties are inseparable. It was not merely a privilege to accept the invitation of the French nation to join in the exposition of 1900; it was not simply to meet the honorable challenge of a worthy competitor; it was not alone in obedience to a sentiment living in the hearts of her people; it was in response to a well-known and fully appreciated international obligation that the people of the United States, speaking through their representatives in Congress, determined to assume their proper position at the exposition of 1900.

To the invitation the response was, "We come, with full hearts and full hands."

A preliminary investigation and report was made by Moses P. Handy, a special commissioner, whose death, occurring soon after his report was made, all deeply deplored. His mission, both difficult and delicate, was to convey to the French the response of the United States to the proffered invitation, and to report upon the conditions requisite for proper action. On July 1, 1898, Congress passed enactments authorizing the national participation in the exposition, the appointment of a commissioner-general and other officials, and the appropriation of funds necessary to carry its enactments into effect. The appropriations made at that time, and increased by subsequent legislation, amount in the aggregate to $1,369,500.

Pursuant to that authority, the President appointed Ferdinand W. Peck, of Chicago, Commissioner-General; Benjamin D. Woodward, of Columbia University, New York, Assistant Commissioner-General; and Frederick Brackett, of the Treasury Department, Washington, Secretary. In the organisation which was afterwards perfected two principal departments were created, one of exhibits and the other of business. Frederick J. V. Skiff, of the Field Columbian Museum of Chicago, was placed at the head of the first as Director-in-Chief of Exhibits, and Paul Blackmar, also of Chicago, at the head of the second, as Director of Affairs. The classification determined by the French authorities provided for the arrangement of exhibits in eighteen groups, but for reasons of economy and of efficiency these groups were distributed by the United States Commissioner among ten chief officers,

called directors. In some cases two, or even three, groups were assigned to a single director. The resulting departments are as follows:

Departments.	Directors.
Education and Social Economy	Howard J. Rogers.
Fine Arts	James H. Cauldwell.
Liberal Arts and Chemical Industries	Alexander S. Capehart.
Machinery and Electricity	Francis E. Drake.
Transportation, Military and Naval Exhibs. ...	Willard A. Smith.
Agriculture, Horticulture, and Foods	Charles Richards Dodge.
Forestry and Fisheries	Tarleton H. Bean.
Mines and Metallurgy	Frederick J. V. Skiff.
Textile Industries	John H. McGibbons.
Furniture and varied Industries	M. H. Hulbert.

In February, 1900, the President appointed eighteen honorary commissioners, as follows:

Bertha Honore Palmer	Illinois.
James Allison	Kansas.
Brutus J. Clay	Kentucky.
Charles A. Collier	Georgia.
Michel H. de Young	California.
William L. Elkins	Pennsylvania.
Ogden H. Fethers	Wisconsin.
Peter Jansen	Nebraska.
Calvin Manning	Iowa.
Franklin Murphy	New Jersey.
Henry A. Parr	Maryland.
Henry M. Putney	New Hampshire.
Alvin H. Sanders	Illinois.
Louis Stern	New York.
William G. Thompson	Michigan.
William M. Thornton	Virginia.
Arthur E. Valois	New York.
Thomas F. Walsh	Colorado.

Offices were opened at the Auditorium in Chicago, at the Equitable Building in New York, at the Agricultural Department at Washington, and at 20 Avenue Rapp in Paris. Negotiations for space were at once entered upon with the French. After some discussion, in which the highest diplomatic talent of both countries was involved, the authorities responded with a degree of liberality,

perhaps as great as the limiting conditions would allow. The aggregate of space which has been assigned to the United States sections is 338,987 square feet gross—that is, inclusive of aisles and passages.

A national pavilion, covering 9,935 square feet of area, and 167·5 feet high, has been erected upon the Quai d'Orsay, in a style worthy of the dignity and position of the nation which it represents. Other buildings have been erected as they were found necessary, upon the Quai d'Orsay, the Esplanade des Invalides, the Avenue Suffren, and at Vincennes. Several buildings have been erected at Vincennes by exhibitors.

The spaces provided for exhibits from the United States, either by assignment in the great palaces of the exposition or in the buildings erected for the purpose, have been filled with material selected with the care made imperatively necessary by the relatively restricted exhibition areas. The exhibits are thoroughly representative in their various classes. The total number of exhibitors presenting distinct exhibits appears from the catalogue herewith presented to be 6,563. Were the contributors to collective exhibits included in the reckoning, the total number of exhibitors would be considerably more than 7,000. The number of distinct exhibits has not yet been ascertained, as it rests under the necessary uncertainty of the limitation of an exhibit. Conservative estimates will place the number of exhibits at from 25,000 to 30,000.

It is believed that no citizen of the United States need go away disappointed after viewing the exhibits which his country makes at this exposition. It is expected that a reasonable proportion of the articles displayed will receive the commendations of those appointed to determine their comparative merits. The Commissioner-General feels assured that the sections of the United States will present their full share of exhibits notable for conspicuous merit, illustrative of the progress of science and the march of invention. It is nevertheless the fact that the best things of a nation's production—those which contribute most largely to its glory and assign to it a commanding place among its competitors—are such as will not submit to be encased in the pavilions of an exposition, to be ticketed and numbered and inscribed in its catalogue. Some of these things are visible and tangible, like the trains and tracks and bridges of railways; steel

Ferdinand W. Peck,

Commissioner-General of the United States to the Paris Exposition of 1900.

buildings that reach above the clouds; the Chicago drainage canal; the Yerkes telescope; forests and plains; wheat fields bounded by the horizon; cotton fields, ivory white beneath the moon's cold radiance; unbroken areas of rustling maize that a flying train may skirt for an hour; the deep canons and resounding waterfalls, and the towering summits of snow-clad mountains.

The chief exhibit which the nation of the United States of North America has to present before the world is herself, her people, her institutions, and the results which she has achieved. One hundred and twenty-four years have passed since thirteen British colonies in America declared their independence; one hundred and seventeen since their independence was recognised by the mother country. The years which passed between these events and the opening of the nineteenth century were full of effort and fertile of results not to be slightly esteemed; but it still remains true that the United States, as viewed at the close of the nineteenth century, has been, in the main, developed within the nineteenth century. Under the methods of the exposition of 1900, it may not be inappropriate to present, with a brevity imposed by the conditions,

A RETROSPECTIVE EXPOSITION OF THE UNITED STATES OF AMERICA.

In 1801 the United States was a country but lately admitted to the family of nations and scarcely come to its majority. Its inheritance was rather *in posse* than *in esse*. Its capital, like many a young man's wealth, consisted chiefly of youth, vigor, hope and freedom. Its principal asset was a virgin forest, traversed here and there by a stream or a trail, and occupied only by savage and hostile men. A strip of territory, inhabited and cultivated, extended inland from the sea from one hundred to three hundred miles, and along the coast about a thousand miles, having an area of about 280,000 square miles. In this area dwelt about four millions of people, most of whom were farmers, wrestling hard to wring a scanty subsistence from a churlish soil. There were few manufactories, and most of the farmers served themselves in widely varied handicrafts. The wonderful feat was sometimes performed to shear a sheep in the early

morning; during the day to carry its wool through the various processes of spinning, weaving and dyeing, and from the cloth so made to cut out, make and finish a suit of clothing before the day should end.

Cities were few; Philadelphia and New York in the centre, Boston in the north, and Charleston in the south. Philadelphia, the largest of these, numbered only 81,000 inhabitants. Distances were great and journeys were tedious. From Boston to New York the time in a carriage was from one to two weeks, according to the state of the roads and of the weather. The postmaster-general himself carried the mails in a chaise, and the time of service from Washington to New York was about a week.

The titles to territory which the several colonies brought with them into the union of States were generally vague and often conflicting. In some cases the claims ran ostensibly to the Pacific Ocean. When the conflict with the mother country was settled, the United States found itself in possession of an area bounded on the north partially by the great lakes and the St. Lawrence River, on the east by the ocean, on the south by the Spanish possessions of the Floridas, and on the west by the Mississippi River. The area of this territory was about 807,000 square miles.

The first half of the century was especially an era of expansion. The Floridas were obtained from Spain. From France was purchased the Louisiana country, which occupied on the Gulf coast the land between the mouths of the Mississippi and the Sabine rivers, extending northwardly along the great river to Canada, and included all the land between Canada and Mexico as far as the western range then called the Rocky Mountains, but since more definitely known as the Sierra Nevada. West of this range, the Oregon country in the north was claimed by right of discovery. California, with the arid land of the great central plateau, and Texas in the east, came from Mexico, through a combination of influences, of which revolution, conquest, and purchase were the most conspicuous. Without attempting a strict enumeration of metes and bounds, it is enough to note that the United States of to-day occupies a broad belt of land lying across the North American ontinent from ocean to ocean, from east to west about 3,000 miles,

and from north to south about 1,200 miles in extent. The area of its central continental mass is not far from 3,500,000 square miles, besides its outlying portions, Alaska and its dependencies, the islands of Hawaii and Porto Rico, and the recent Philippine acquisitions. The territory acquired during the first half of the century is about double in area that owned at the beginning of that period. The value of the Alaskan country and the utilities of the recent acquisitions are subjects upon which opinions yet differ.

But this acquisition of territory, although the necessary antecedent to subsequent development, is the least important item in the history of progress in the hundred years. Starting at about the beginning of the century and continuing with an ever-swelling tide that does not yet show evidence of diminution, a grand migration of peoples has distributed many millions of inhabitants over this broad land. The movement began in the eastern States of the seaboard, and presently the currents were found flowing from all European lands. Men came seeking free homes or fertile soils or wealth of precious metals. They came because their friends came. They came to escape exactions upon their persons in the shape of military service, upon their purses in the form of severe taxation. They came because by so doing they could shake off the trammels of oppressive institutions and place themselves where they could think and speak their own free thoughts. This tide of migration swept over the eastern mountains and across the wide interior plain until it surged against the great central mountain masses of the continent. The mountains did not arrest its onward movement, which continued until it covered the western slope even to the Pacific shore. Millions of acres of arable lands come into the possession of millions of men, either without price or at such prices as could be paid out of the profits of a single harvest. As might be expected, the choicest lands are now occupied, but yet there remain millions of acres more well worth the possession of those who would occupy and cultivate them.

After the settler followed those who built railways, laid out towns, founded cities, erected mills, foundries and factories, and wrought in every form of handicraft and of artisan's skill. They built dwellings, they planted forests, they made highways, they erected churches. And near the centre of every village the largest, the costliest and the

United States Building at the Paris Exposition of 1900.

most elegant building, seen from everywhere, and known at once by every stranger, was the public school. Amid the farms, by every hillside, in every valley, in some bright spot planted with trees and decorated with flowers, was the house for the rural district school.

In this movement of the people the railroads did not follow; they led the way. The iron track was pushed across the wild prairie, where were no dwellers; but scarcely were the rails laid before the coming trains brought the coming immigrants, with their families, their cattle, their household goods, and the wilderness, once inhabited by the timid deer, the lumbering bison, and the howling wolf, and swept by the shadows of the migrating fowl, became a magnificent mosaic of broad farms, everywhere beautified by happy homes, the dwellings of successful workers. At this close of the century the people of the United States number more than seventy-five millions of souls.

The full significance of this great migration to the United States needs a moment's consideration to be fully understood. From the census of 1880 the fact was ascertained that at least two-fifths of those enumerated were inheritors of citizenship in other countries, chiefly European. Their parents were born elsewhere than in the United States. Later it was the boast of a mayor of Chicago that in his city there were more Irish than in Dublin, more Germans than in Berlin, more Swedes than in Stockholm, more Greeks than in Athens, and so on through a very considerable list. Those native in the United States were in a minority.

In changing their nationalities, most of these immigrants had made great sacrifices, often not appreciated until later in their experience. No one knows how large a portion of his capital in life is really an inheritance from his ancestry until he has, for some reason, lost this inheritance and has gone to construct new environments in a distant country. The intangible elements of home, family, social ties, habits and affections, as well as the visible things—churches, with God's acres adjacent; the mountain summits, golden at sunrise, or purple at nightfall; the fields lying silent under the midday sun, orchards and meadows, highways and hedges, and the homestead, however humble—have vanished utterly, and must be wholly reconstructed and adjusted to strange conditions. Old things

have passed away, and with new scenes and new relationships, new standards of life, duty, freedom, and even of faith, are found to have assumed control.

The immigrant to the United States lost much, but he found much more. First of all, he found freedom in matters political, social and religious. The trammels of tradition were loosened, the shackles of caste were shaken off. Even the humblest man became a factor in social organization and in the forces which control local and general government. It does not follow that in the outset, or even at later periods, he always acted wisely, but it made a great enlargement of his whole spiritual nature that he was able to act at all. He soon learned that freedom meant restraint. Not restraint from without, from sources which would restrict and confine him, but from within, born of the evidence that to be himself free he must respect and protect the liberties of others.

With freedom, he found intelligence, somewhat for himself, but mostly for his children; the intelligence of a public school system everywhere in evidence, though often more notable for the generous diffusion of the opportunities of elementary training than for the extent or completeness of that training. The intelligence diffused by an active and untrammelled press broadened the scope of his vision and constantly rectified his judgments.

Next came unity, a unity which is perhaps the most remarkable characteristic of the new life which these migrated elements presently took upon themselves. Nothing is so remarkable in the history of the increase of the population of the United States, by the gathering of peoples from every land and every clime, as the rapidity and the degree of completeness with which these apparently conflicting elements have become unified as Americans and united as the citizens of a common country. The parents of a family may, for example, be Germans or Poles, Swedes, Swiss or Irish, as the case may be. They naturally and necessarily retain much of that to which they were born, their habits of life, speech, manners, instincts. Little else could be expected. Ask a man of what nationality he is, and he will answer instinctively according to the fact of his birth. But a single generation finds a transformation. The children are Americans, more intense in their earnest sympathies,

more proud of the name and the relationship, more anxious that nc mistake be made in the recognition, than are those whose inheritances of a like nature run through several generations of ancestry. The son of an Irishman, a Scandinavian, a German, a Bohemian, is always ready to acknowledge his parentage, but he is still more proud of being born under the stars and stripes, and he wants everybody to be cognizant of the fact.

Whether from the mingling of so many types and the blending of all into one, whether as the result of newly active influences and the elimination of some thought to be effete or harmful, whether from breathing an atmosphere replete with ozone and surcharged with electric forces attractive and repellent, somehow the American has developed a type of character peculiar to himself. Known and read of all men, admired by some, feared by some, but admitted to have a positive function among the forces now active in all mundane affairs, the American—for such the citizen of the United States of America usually styles himself—is decided in his views, nervous and vigorous in expressing them, prompt in action as he is quick in apprehension, respects the future far more than the past, is confident of himself, and has the strength of his convictions. He is cool, clear-headed, and deliberate, and he never recognises defeat.

The American citizen is himself the most notable element in this retrospective exhibition.

What has he accomplished?

As we have already seen, he has subdued the wilderness, whether forest or prairie, and has dotted it over with millions of farms and homes. The first work of the settler was to provide a shelter for his family. The next was to civilize the soil, which in nature was raw and savage. If his lands were covered with forest, the forest was to be removed; if the land were prairie, the sod must be disintegrated; fences must be made, roads opened, swamps drained, dwellings and other buildings erected. When the farm was brought into proper subjugation, and was fitted with the equipment and conveniences necessary to make life comfortable and labour remunerative, most of its value consisted in that which its owner had put into it out of his own patient and persevering effort. The land was little more than an opportunity, useful according as it was used.

B.-D. Woodward,

Assistant Commissioner-General of the United States to the Paris Exposition of 1900.

Assuming that the normal area of a farm is a quarter section of land—that is, a square half a mile long and wide—we find that about 9,000,000 of farms have been made in the United States during the century. In the earlier days the settler paid $100 for his quarter section; in later days he received title to it free of money cost, after he had lived upon it and cultivated it for five years. An estimate of the present value will depend upon a value assumed for the unit, upon which opinions will vary greatly. At $20 per acre, which most valuers would consider low, the aggregate value of the farms of the United States would reach the sum of $115,200,000,000.

An exhaustive estimate of the productive power of these lands will not be attempted. The great variety of soil, of temperature, and of moisture existing in the various parts of an area so extended provide for an equally great variety of possible products. Three items are especially notable, furnishing directly or indirectly the chief articles which the nation may offer in trade with other peoples. These are hay, grain, including principally wheat in the northern and maize in the central regions, and cotton. Wheat and cotton are exported chiefly in their natural, non-manufactured form; hay and maize are used in feeding of animals, and appear in the world's markets transformed into less bulky commodities in the form of animal food products. In respect to cotton the United States stands as the recognized source from which the world's supply is chiefly drawn. As to grain and meats the United States furnishes the reserve from which other nations may draw when their own resources prove to be inadequate.

A few quotations will indicate the capacity of the United States in these respects.

In 1896 the United States produced of the articles named:

Wheat	430,000,000 bushels, valued at	$429,000,000
Maize	1,903,000,000 bushels, valued at	$501,000,000
All forms of grain ...	3,227,000,000 bushels, valued at	$1,114,000,000
Hay	60,000,000 tons, valued at	$401,000,000
Cotton	5,677,000,000 pounds, valued at	$294,000,000

The three vegetable products, hay, grain, and cotton, produced in a single year, aggregate a value of $1,809,000,000.

If to this sum be added the values of other products of the soil,

less important relatively, but yet of large real moment, such as lumber, vegetables, fruits, tobacco, with the increased value of animal products above that of the food consumed in producing them, the aggregate annual returns from the agricultural resources of the United States do not fall short of $2,500,000,000.

Nor does this express the enormous productive power of this country. In 1897 the mines of the United States yielded quantities and values stated in round numbers as follows:

Iron Ore, 18,000,000 tons.	
Pig Iron, 10,000,000 tons	$ 95,000,000
Coal, 179,000,000 tons	199,000,000
Petroleum, 60,000,000 barrels	41,000,000
Gold and Silver	90,000,000
Copper, Lead and Zinc	73,000,000
Mineral products, metallic	302,000,000
Mineral products, non-metallic	329,000,000

Thus do we present in a few of the more important items the power of the United States of 1900 in the production of material wealth out of its own resources.

Mention has already been made of the railroads as factors aiding the settlement of the country and subjugation of the soil. The history of the growth of railways in the United States is brief, as it is elsewhere in the world. Seventy years only have passed since the beginning of this great industry in this land. In the earlier days the railroads extended themselves slowly; they joined places already established, they accepted routes under the pressure of conditions imposed upon them, they were the servants of the public. In later periods their progress was rapid and irresistible; they pushed beyond the outposts of civilisation, moving as an advanced guard into the wilderness, and leaving a finished map behind. The builders swept across the prairies, laying ties upon the ungraded earth, dropping rails from flat-cars, which rolled on over the irons themselves had brought; they spanned the streams and the arroyos; they threaded the canons; some mountains they climbed, others they pierced. No difficulty was so formidable that it could not be passed by a route that went over or around or through it. The first requisition was to "get there"—from terminus to terminus—by structures no matter how

temporary in appearance if only they could endure the tramp of the iron steed. Once the track was laid, it was used as a factor in its own perfection. It was aligned, graded, ballasted, provided with sidings, turnouts, stations, passenger and freight cars, and locomotives. A wide river was crossed by boats; the permanent bridge of steel came later. The mountain was flanked by a switch-back, anticipating the tunnel which afterwards pierced it through and through. Thus it happened that the road was in active and profitable use long before it was finished—if, indeed, an American railroad is ever finished. To-day the trunk lines of the United States, the great arteries of traffic, challenge comparison with any railroads of the world upon the following items: Solidity and durability of permanent way in every minutia detail; strength and swiftness of motive power; comfort and convenience of its passenger equipment; the accuracy of connections, making all the roads of one great area to act as if they were under the control of a single management; the care with which baggage is handled and the certainty with which it is made to arrive at its destination and be restored to its rightful owner. Sleeping-cars, dining-cars, vestibuled trains, automatic braking systems, self-acting car-couplers, all have their origin and their acme upon the railroads of the United States.

Of these roads, 184,608 miles are in operation. Their service requires 33,000 locomotives, 26,000 passenger cars, 8,000 baggage and mail cars, and more than 1,250,000 freight cars. They represent a capitalization of eleven and a quarter billions of dollars ($11,233,529,588), and their annual earnings are $338,000,000.

The railroad recognises but one messenger, the telegraph, as fleeter than himself, and this messenger he has taken into his own service. The telegraphs are as ubiquitous as the railroads, having in operation 875,000 miles of wire.

In every form the applications of electricity are constant and effective. Every village has its electric street-car service, its system of electric lighting, and its telephone service. The statistics thereof vary too rapidly to be quoted. One would as soon think of asking if the sun shines in Oshkosh or in Kankakee as of enquiring if electric lights and tramways and telephones could be found there.

Several causes have aided in developing in the United States a

manufacturing system scarcely less important than the agricultural system which has been described. The first is the possession in unlimited amounts, by the gift of nature, of the materials for manufactures. The forests abound in woods, each variety having a peculiar merit. In the making of a heavy farm-wagon more than twenty kinds of wood are used, and each is found in some region which produces it of the quality which best fits it for its peculiar use. Immense fields of anthracite and bituminous coals, scattered all over the country furnish fuel for the production of motive power. The mountains furnish ores of all the useful metals and of the most excellent quality.

The second cause is the imperative demand for the aid of nature's forces, working through machinery and accentuated by the relative scarcity of manual labor. Men's hands were too few to perform the labor which their heads devised, and the powers of the wandering winds or of running streams or of throbbing steam were made to delve and pound, grind and spin. Four hundred millions of bushels of wheat grown in a single season would fall in the field before such a mass of grain could be reaped with the sickle, or would rot in the stack before it could be thrashed by the flail. Out of such needs came the invention of machinery for doing almost every kind of agricultural labor. Similar causes stimulated invention in other directions, producing machines of which those for sewing, for writing, for setting type are examples.

The third element, and one which produced the greatest effect in the advancement of American manufacturers, is the skill which has invented and applied machinery for making machines, after what has been distinctively called the American system. To illustrate what is meant by this term, and its application as well, let us suppose that a complex object, say a revolver, is to be produced in considerable quantities. Doubtless a thoroughly skilful workman can produce the implement by working out piece after piece, fitting, adjusting, failing, and trying again, and in time evolve one revolver and after that another. But the successful manufacture of revolvers cannot be conducted in that way. The first step will require the careful and complete analysis of the weapon, separating it into its minutest elements, and determining the

mechanical processes by which each separate element may be produced in the best and most economical manner. For each process a machine is devised, and this machine is made to do that particular piece of work with the utmost accuracy. So small a thing as a screw may require a separate machine for each of such processes as turning and threading, or slotting the head; each screw produced must be absolutely perfect, answering the strictest tests for length or for diameter. If at any time the screws are found not to answer to the tests, the fault must be sought in the machines which make the screws, and these machines must be readjusted to their special function. A thousand revolvers require one thousand pieces of each different kind, and these pieces, being made each by the same processes, in the action of the same machines, are not acceptable unless each is absolutely perfect, and therefore all of the same kind are absolutely alike. The parts being assembled, the thousand resulting weapons are perfect specimens of their kind. Any piece fits equally well in any revolver.

The method requires high inventive genius in devising and keeping at its best service the varied and intricate machinery which constructs the parts; it requires capital adequate to the outlay; it must be sure of a market which will regularly absorb the product. It requires workmen educated to keep the machinery up to its ideal standard.

This method has been applied to the production of firearms, of sewing-machines, writing-machines, watches, bicycles, printing presses, steam engines, pianofortes and other things without number, abundantly displayed at this exposition.

The limits of space permit the presentation of only a few items illustrating the retrospective view of what the United States has accomplished in the nineteenth century. Busy in solving the material problems which nature and necessity have compelled them to consider, her people have neither forgotten nor neglected others of a more strictly scientific, intellectual, or æsthetic character. America with her century of retrospection may not be expected to parallel all the results which Europe may proudly present as the record of a thousand years. But in the living to-day, in proportion to the number of her citizens, she presents in every field of intellectual

attainment her sons and daughters, who represent her with distinguished honour. Statesmen, legislators, jurists, soldiers, sailors, historians, discoverers, inventors, authors, poets, painters, sculptors, musicians, educators,—upon the roll of living men in any of these groups of names of Americans will appear, frequent in number and conspicuous in position.

Of two results in education is she particularly proud. The first is the provision generously and universally made for the free instruction of every child within her borders. Every state makes the primary education of its children its especial care, an education sufficient for their guidance in all the ordinary avocations of life. Fourteen millions of children are enrolled in the common schools of the United States. The annual expenditure for their instruction is more than $183,000,000.

The second is the rapid and vigorous development within the last thirty years of technical schools and universities. Among the technical schools, those established by the aid of the general government are worthy of special commendation, as upon the foundations so laid have been erected some of the most advanced schools. The last ten years have been especially notable for generous endowments of important universities. Some of the elders, like Harvard, Yale, Columbia, and Princeton, have acquired large sums, surpassed only by the yet more magnificent endowments which have fallen to the University of California, the Leland Stanford, Jr., University, and the University of Chicago. Endowments are significant of possible opportunities; but much more significant of actual advancement has been the forward steps taken by these institutions, and others as well, by providing instruction in the class of subjects known by common consent as university courses. It is now possible to obtain doctorate standing from American universities equal in actual significance, if not in reputation, to those acquired in European institutions. The day has already arrived when students from other countries are attracted to schools in the United States by the special advantages offered in special lines of study.

The attitude of the United States of America before the other great nations of the world is interesting and peculiar. She is the first great republic of modern times founded upon the freedom, integrity,

and intelligence of the citizen. She is free from the traditional inheritances which hamper nations of a longer life. She is isolated in her position, which has been to her a better protection than costly armaments. She has freed herself from the evil influences of human bondage. Her people are intelligent, industrious, and prosperous. She presents in the retrospective exposition of the nations, herself, her people, and her history.

Fred. Brackett,

Secretary and Disbursing Agent of the United States to the Paris Exposition of 1900.

THE PRATT & WHITNEY CO.,

HARTFORD, CONN., U. S. A.

Champs de Mars—Department of Machinery, Space I—Block IV—Group IV.

EXHIBIT:

PRECISION BENCH LATHES AND MILLING MACHINE, with Attachments; SUB-PRESSES AND DIES.

600-MM. STANDARD MEASURING MACHINE; STANDARD CYLINDRICAL SIZE-GAUGES AND TEMPLATES; STANDARD DROP-FORGED STEEL CALIPER GAUGES.

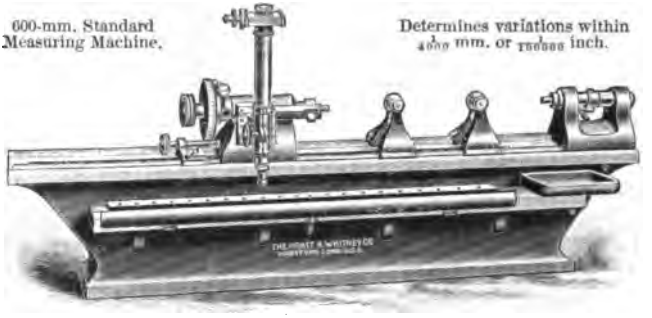
INTERNATIONAL STANDARD SCREW THREAD GAUGES, 6 mm. to 52 mm. diam.

STANDARD REAMERS, for Machine Shop and Locomotive Work; STANDARD TAPER PINS.

MILLING CUTTERS, Formed and Inserted Blade; METAL SLITTING SAWS.

INTERNATIONAL STANDARD TAPS AND DIES; RATCHET DRILLS; LATHE TOOLS.

COMBINATION LATHE CHUCKS.



Bois de Vincennes—United States Machinery Building, Space II—Block IV.

EXHIBIT—In addition to Machines and Tools enumerated for the Champs de Mars:

10-INCH TOOLMAKERS' LATHE; 14-INCH ENGINE LATHE; 42-INCH GAP LATHE.

CENTERING MACHINE; CUTTING-OFF MACHINE, with Increase Speed Mechanism; DIE-SINKING MACHINE; ADJUSTABLE MULTI-SPINDLE DRILL; CUP AND CONE AND CUTTER GRINDING MACHINES; DOUBLE AND SINGLE HEAD MILLING MACHINES, with Horizontal or Vertical Spindles; 18-IN. × 4-FT. TOOLROOM PLANER; 14-INCH TOOLROOM SHAPER.

GUN-BARREL DRILLING MACHINE; GUN-BARREL RIFLING MACHINE.

HAND TURRET-HEAD SCREW MACHINES; 14-INCH TURRET-HEAD CHUCKING MACHINE, with Brass-Working Tools; 16-INCH TURRET-HEAD FACING AND CHUCKING MACHINE; 16-INCH TURRET-HEAD CHASING LATHE.

AUTOMATIC TURRET-HEAD SCREW MACHINE WITH MAGAZINE ATTACHMENT; AUTOMATIC TURRET-HEAD SCREW MACHINE, with Tools for Rod Work.

Machines may be seen in operation at our Vincennes Exhibit. Inspection cordially invited.

THE PRATT & WHITNEY CO.

BETHLEHEM STEEL COMPANY

SOUTH BETHLEHEM,
PENNSYLVANIA, U.S.A.

Manufacturers of Special Grades of Steel Forgings and Castings of High Carbon Steel, Nickel Steel, Etc.

Armor Plate, Vault Plate, Guns of all Calibers, Gun Carriages and Ordnance Material of all kinds.

Special facilities for Fluid Compressing the Ingot, for Forging under Heavy Hydraulic Presses, for Hollow Forging on a Mandrel, and for Annealing and Oil-tempering and giving the necessary Heat Treatment to Forgings and Castings of all descriptions.

The largest Power Plants in the World are equipped with Stationary Engines to which "Bethlehem" Steel Forgings have been supplied.

Marine Engine Shafting and Miscellaneous Forgings have been supplied to Ocean Steamers, Lake and River Vessels and to the Navies of the United States of America and Foreign Governments. The shafting of the U. S. S. "OREGON" was manufactured by "Bethlehem."

The Walworth Mfg. Co., of Boston, Mass., U. S. A., established in 1842, are the oldest manufacturers in the country of all goods and materials used for the erection of steam plants. Their works at City Point, South Boston, are very extensive, employing a force of 1,000 skilled mechanics.

There are many departments of their business, each under charge of competent foremen. These departments include Iron Foundries, Brass Foundries, Forging Shops, Brass Finishing Shops, Iron Finishing Shops, Tool Making Shops, etc.; every department equipped with the most modern machinery to facilitate the prompt and careful execution of orders.

They manufacture many tools for the use of steam fitters and engineers, a number of which they own and control exclusively. Among these is the Stillson Pipe Wrench, well known throughout all the world, also the Miller's Ratchet Die Stock for threading pipe in trenches, corners, etc., Walworth Die Stock for threading pipe with one going over, Walworth Pipe Vise, Hall's Patent Cast Iron Pipe Cutter, Stanwood and Walworth Pipe Cutters, and Walworth Taps and Reamers. All these tools are used wherever piping work is done.

Another department of the business is the manufacture of Brass and Iron Valves and Cocks for all purposes, with both English and American threads. A department is devoted to making Cast Iron, Brass, and Malleable Fittings for steam, gas and water work. They also have a separate building and department for manufacturing large valves, and make a specialty of fittings and pipe for power plants using high pressure steam. In this department they make Walworth Gate Valves in all sizes from ¼ to 42 inches, having bronze seats and discs which are renewable, as well as all kinds and sizes of Flanged Fittings.

A specialty of their manufacture is the Van Stone Pipe Joint and Pipe Bend. The Van Stone Pipe Joint is made by flanging over a special soft steel pipe onto the face of a cast iron or gun iron steel flange, so that the Steam Joint is effected between the ends of the pipe by the introduction of a gasket. There are no threads through which steam can escape, and as the flanges swivel around the pipe, the erection of work is greatly facilitated. By their method of bending pipe many Joints are saved and friction is reduced, while expansion and contraction is amply provided for. Their work is found in nearly every large power plant in the United States.

A large department is devoted to the manufacture of the Walworth Automatic Link Sprinkler, a device for automatically extinguishing fires in mills, factories and public buildings. Many hundred thousand of these sprinklers are annually sold.

They will have samples for inspection in their display at the Exposition, and a competent representative in charge to make all explanations. They are represented in Europe by Mr. H. Munzing, 199 Upper Thames St., London, and by Mr. Aug. Eggers, Bremen, Germany. Their home offices are 132 Federal St., Boston. Cable address "Walmanco."

The American Steel & Wire Co.

NEW YORK, CHICAGO, SAN FRANCISCO, LONDON

Miners of Iron, Coal and Zinc. Makers of Pig Iron, Open Hearth, Bessemer and Crucible Steel, Charcoal Iron, Copper, Wire and Wire Products of Every Description. Makers of Plates, Horse Shoes and Structural Material.

Annual Product—7,670,000 Tons (2240 Lbs. each) Raw Material.
" " 1,500,000 " " " Finished Material.
Total Number of Employees, 36,000.

Medals:

London, 1851
Philadelphia, 1876
Chicago, 1893

Trade Mark.

Owners of Steamship Lines on the Great Lakes and Ohio River

PRODUCTS:

Raw Material—Coking Coal, Steam Coal, Coke, Lime Stone, Zinc Ore, Zinc, Iron Ore, Pig Iron, Bessemer Steel, Open Hearth Basic and Acid Steel, Crucible Steel, Charcoal Iron, Copper Ingots and Bars.

Rough Material—Ingots, Blooms, Billets, Wire Rods, Steel, Iron and Copper.

Wire—Market, Fence, Weaving, Spring, Cast Steel, Straightened and Cut, Odd Shaped, Screw, Cotter, Linch Pin or Spring Key, Horse Nail, Rope Wire, Needle, Bottling, Florist, Mattress, Broom, Netting, Neck for beer bottles, Signal, Bridge Cable, Pin, Bonnet, Card, Heddle, Bookbinder, Stone, Spooled Wire, Drill Rod, Music, Covering, Telegraph (Galod), Telegraph (Copper), Trolley, Copper Wire, Brass Wire, Aluminum Wire, Aluminum Bronze Wire, Resistance Wire (Nickel Steel).

Flat Wire—Bessemer Steel, Cast Steel, Band Saw, Curtain Spring, Tape Line, Rule Steel, Steel Spring, Shoe Nail, Sash Ribbon, Corset, Dress Stays, Knife Blades, Clock Springs, Watch Springs, Motor Springs, Lamp Springs, Advertising Springs, Sash Balance Springs, Typewriter Springs.

Structural Material—Steel Beams, Steel Angles, Steel Squares, Steel Hexagons and Special Shapes, Channel Stock, Knife Bar Angle Stock, Wagon Box Steel, Tire Stock, Splice Bars, Frog Filling.

Shafting—Hot Finished, Cold Finished.

Boiler and Tank Steel—Steel Plates, Boiler Plates, Throot Sheets for fire boxes, Door Sheets, Tank Steel, Flange Steel, Steel for Wagon Skeins, Bessemer Skelp.

Chain—Butt Chains, Breast Chains, Stay Chains, Halter Chains, Lock Chains, Cart Back Chains, Stretcher Chains, Trace Chains, Cow Ties, Jack Chains, Pump Chains.

Horse Shoes—Horse Shoes, Toe Calks.

Nails, Staples, etc.—Nails, Brads, Escutcheon Pins, Wire Spikes, Common Spikes, Railway Spikes, Ship Spikes, Boat Spikes, Telegraph Pole Steps, Sash or Dowel Pins, Headless and Pointless Nails, Tacks, Double Pointed Tacks, Staples, Awning Hooks, Boot Calks, Special Hooks, Pail Ears, Bed Links, Basket Hooks.

Ties—Bale Ties, Cotton Ties.

Fencing—Glidden Barbed Fencing—Galv'd and Pt'd) Waukegan Barbed Fencing—Galv'd and Pt'd), Iowa Barbed Fencing—Galv'd and Pt'd), Flat Twisted Barbless Fencing, Two Ply Twisted Barbless Fencing, Barbed Netting, Poultry and Rabbit Fencing, Lawn Fencing, Horse Fencing, Field Fencing, Field Fencing Gates.

Wire Ropes and Cables—Flat Ropes, Round Ropes, Sash Cord, Clothes Lines, Guy Ropes, Signal Strand, Hoisting and Transmission Rope, Hawsers, Ship Rigging, Street Railway Cables, Towing Cables, Switching Ropes, Wire Rope Fittings—Hooks, Thimbles, Swivels, etc.

Spokes—Bicycle Spokes, Sulky Spokes.

Insulated Wire and Cables—Magnet Wire, Office Wire, Underwriters Wire, Annunciator Wire, Lamp Cord, Feeder Wire, Ground Wire, Weatherproof Line Wire, Weatherproof Iron Line Wire, Submarine Power Cables, Submarine Telegraph Cables, Electrical Cables, Torpedo Cables, Office Cables, Telephone and Telegraph Cables, Lead Encased Wire and Cables, Flexible Cables, Rheostat Cables, Stranded Conductors, Fireproof Insulated Wire, Paper Insulated Wire, Asbestos Insulated Wire, Rubber Insulated Wire.

Rail Bonds—Solid Bonds, Leaf Bonds, Stranded Bonds, Bonds of Special Lengths, etc., Terminals, Drift or Bond Pins.

Springs, Etc,—Spiral Springs, Furniture Springs, Car Springs, Trolley Springs, Compression Springs, Helical Bed Springs, Gun Springs, Saddle Springs, Wringer Springs, Tedder Forks, Agricultural Implement Springs, Heel Protectors, Knife Backs.

Dies—Iron Dies for Wire Drawing, Steel Dies for Wire Drawing, Diamond Dies for Wire Drawing.

Bi-Products—Venetian Bed, Green Copperas, Rusty Copperas.

THE AMERICAN STEEL & WIRE CO.

New York **Chicago** **San Francisco** **London**

ATLAS TACK COMPANY

TAUNTON, MASS., U. S. A.

GROUP 11. CLASS 65.

We are the Largest Manufacturers of Tacks and Small Nails in the World.

Our regular line comprises over twenty thousand kinds, styles and sizes. We make every kind of Tack and Nail known to the Shoe Finders and Hardware Trades, including many items which are made only by us.

Field's Cub Nail:

This is a long, sharp pointed, heavily corrugated Shoe Nail that "hugs like a bear."

Soule's Patent Dowel Brads:

For putting on rosettes, small Carvings and overlaying Panels without marring the face of the material. Does away with the trouble often caused by the weather where glue is used.

Roth's Patent Top-Lift Heel Nail:

Is used for fastening the top lift to heels. It can be used in any Heeling Machine.

Our products include Steel Shoe Shanks, Heel and Toe Plates, Shoe and Corset Eyelets, Wire Nails, Flange Head Hoop or Barrel Nails, Brass and Iron Escutcheon Pins, Rivets and Burrs, Double Pointed Tacks and Staples, Cast Head Coffin Tacks, Lining and Saddle Nails, Papier Mache Nails, Metal Tufting Buttons, Glaziers' Points, Leathered Head Carpet Tacks and hundreds of other kindred articles.

We are prepared to make to sample any kind of Tack or Nail that ever has been, or can be made.

We have been in the tack business since 1810.

We employ six hundred workmen and endeavor to keep none but those who are most highly skilled in their various branches of trade.

We are continually introducing improvements and endeavor to keep abreast of the times in every respect.

We wish to call particular attention to our Exhibit.

We feel that our goods speak more loudly for us than we can for them.

THE L. S. STARRETT CO.

ATHOL, MASSACHUSETTS, U. S. A.

Established 1880
Incorporated 1900

Manufacturers of Fine Tools for all Workers in Metal or Wood

WE MAKE Steel Rules from 1 inch to 48 inches and from 5 c.m. to 1 M. in length, of various thicknesses and in a large variety of English and Metric graduations; Steel Straight Edges; Center Gauges; Squares of various designs and sizes from the 1 inch solid steel Square to the 24 inch or 60 c.m. Standard Square. In our Squares as well as our Steel Rules special attention is given to accurate graduation, and all of our products which require graduation are marked in either the English or Metric measure as the customer may order. We also make Protractors and Inclinometers, Pocket Slide Caliper Squares and Bevel Protractors. Our line of Micrometer Gauges is extensive, both for outside and inside measure, in English or Metric. These tools embody a number of valuable and unique features and will repay careful study on the part of anyone who is a user of instruments of precision.

Other tools of our manufacture are Bevels, Cut Nippers, Scratch Gauges, Depth Gauges, Jack Screws, Steel Clamps, Scribers, Speed Indicators, Nail Sets, Center Punches, Surface Gauges, Trammel Points, Levels, T Squares, and other ingenious Draughting Instruments, Stair Gauges, Screw Drivers, Thickness Gauges, Locomotive Guide Liners, etc. In Screw Pitch Gauges we make a variety of styles, ranging from 2¼ to 82 pitches, and for V, Whitworth or U. S. Standard threads; as well as Metric Gauges, and Gauges after the Système Français and the Système International. Our line of Calipers and Dividers is most complete, including 29 different styles and 170 sizes. We also make Hack Saw Frames and saws for power or hand frames.

WE ISSUE a carefully prepared and illustrated catalogue of 112 pages which may be obtained for the asking, either of us, or any of our agents. Our main office and works are at Athol, Massachusetts, five hours by railroad from New York. We have a branch office and store at No. 126 Liberty Street, New York City.

OUR AGENTS ARE

France— Paris, Adphe. Janssens, 16 Place de la Republique.
England— London, Chas. Churchill & Co., Ltd., 15 Leonard St., Finsbury, E.C.
Birmingham, Chas. Churchill & Co., Ltd., 2-10 Albert Street.
Manchester, Chas. Churchill & Co., Ltd., 2 Charlotte Street. Mosley St.
Scotland—Glasgow, Chas. Churchill & Co., Ltd., 52 Bothwell Street.
Germany—Berlin. Schuchardt & Schütte, 59 Spandauer Strasse.
Cologne, Schuchardt & Schütte.
Belgium— Brussels, Schuchardt & Schütte, Vieux Marché-aux-Grains, 3.
Brussels, Adphe. Janssens, 10a Brd. Barthéleme.
Italy— Milan, Adler & Eisenschitz, 28 Via Principe Umberto.
Switzerland—La Chaux de Fonds, W. Hummel Fils, 30 Rue Léopold-Robert.
Sweden— Malmö, Wilh. Sonesson & Co.
Stockholm, Schuchardt & Schütte, Fersenske Terassen Blasieholmsham
Stockholm, Aktiebolaget B. A. Hjorth & Co., 5 Klara Norra Kyrkogata.
Denmark—Copenhagen K, Aktiebolaget V. Löwener.
Copenhagen Ö, Wilh. Sonesson & Co.
Austria— Vienna VII., Schuchardt & Schütte, Breitegasse 17.
Budapest, Ignácz Székely, 9-11 Erszebet-Körut.
Russia— St. Petersburg, Schuchardt & Schütte, 11 Newsky Prospect.
Argentine Republic—Buenos Ayres, Thos. Drydale & Co., 436 Calle Moreno.
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Melbourne, Edge & Edge.
Japan— Yokohama, F. W. Horne, Box 174.

Jones & Lamson Machine Co.

SPRINGFIELD, VERMONT, U. S. A.

Manufacturers of Turret Machinery

WE MANUFACTURE but one style of Turret Machinery, *i.e.*, what is known in the market as the **Hartness Flat Turret Lathe.** This machine in its popular size handles stock from the rod or bar up to 2 inches in diameter and 24 inches long, and has become an indispensable tool in the equipment of modern machine shops throughout the civilized world. It is designed especially for the *Rapid and Accurate* production of *Lathe Work* from the continuous bar with but one handling, thus making a saving in the cost of producing this class of work over the old method of from 50 to 75 per cent.; the machine in some cases actually saving the amount of its purchase price during the year of its installation. Our catalogue entitled, **"Rapid Lathe Work,"** illustrates and describes our machine and its equipment and is mailed on request.

OUR FACILITIES.—Our plant for the manufacture of this machine is unique, in that the entire works are designed and equipped for the most rapid and accurate construction of but one class of machine tools, and at present it is exclusively devoted to the production of the **Hartness 2 x 24 Flat Turret Lathe.** Only by thus concentrating our entire plant do we believe the best results in design, construction, and efficiency can be obtained.

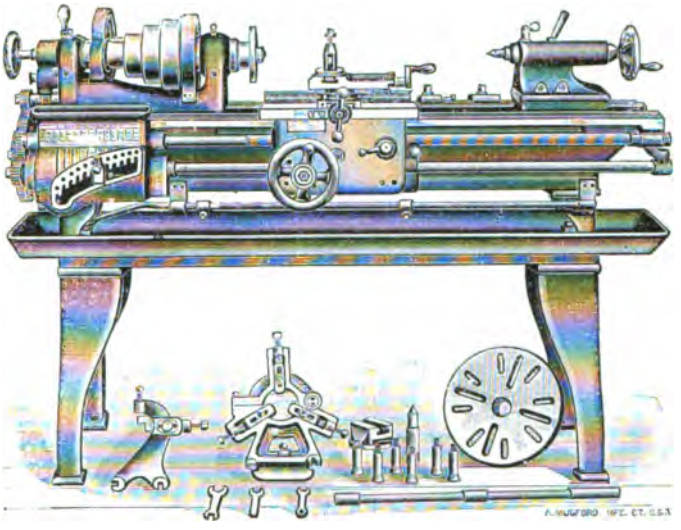
OUR EXHIBIT.—At the Champ de Mars we will have on exhibition one of the **Hartness 2 x 24 Flat Turret Lathes** which will be supplied with power so as to demonstrate the various speeds and feeds of the machine; while at Vincennes, we will have these machines in operation, producing actual work. Inspection of machines and their product is cordially invited.

OUR MACHINES at the World's Columbian Exposition in 1893 were considered, quoting the words of our Diploma, "As a new design of Turret Lathe, and one of the finest machines of its class ever shown. The details of construction and operation are arranged in a most practical and careful manner. The tools are so arranged that they do the work in the shortest time. The whole machine is massively built, so that in operation there is neither trembling nor vibration. The work is done in a rapid, accurate, and efficient manner, and is thus effected because the arrangement of the tools and their form of speed is exactly adapted to their purposes and because the variation of speed can be secured by the most simple means. This Turret Lathe shows advanced and progressive development in design, construction, and arrangement of detail, both the relative laws of motion, strength, and dimension, and superior workmanship." This standard of excellence it has been our aim to maintain in both our home plant and the works at Mulhausen, Germany.

OUR SELLING.—Jones & Lamson Machine Company, of Springfield, Vermont, U.S.A., and Exchange Building, Stephenson's Place, Birmingham, England, have the entire charge of our product for the United States and England. Germany, Belgium, Holland, Switzerland, Austria-Hungary—M. Koyemann, Charlottenstrasse 112, Dusseldorf, Germany. France and Spain—Ph. Bonvillain, 6 Rue Blanche, Paris, France. Sweden, Norway, Denmark, and Finland—Aktiebolaget Verktygsmaskiner, Centralpalatset, Stockholm, Sweden.

The Hendey Machine Company

Torrington, Connecticut
U. S. A.



WE MANUFACTURE the Hendey-Norton Lathes and the Hendey Pillar Shapers. The lathes are made to swing from 12 to 32 inches in various lengths of beds. These lathes represent the latest and most approved improvements, and their especial merits are the Norton System of Change Gearing for Threads and Feeds, Automatic Stop for duplicate work and internal thread cutting, Reverse Motion in apron, and improved self-oiling bearings.

The Shapers are made with 15 to 28 inch stroke, our Patent Adjustable Table, Micrometer Adjustment of stroke, and other features as fully explained in our catalogue.

We quote from Judgment passed upon our machines at Chicago Fair: "The convenience with which this lathe can be operated is simply a revelation to an ordinary lathe hand. They are marked far beyond the ordinary in the amount of ingenuity directed to the operator's convenience. The special merit in these machines is, the delicate stop on the shaping machine, and ESPECIALLY the various improvements in the Hendey-Norton Lathe." Signed by John E. Sweet. Individual Judge.

WE EXHIBIT at the Champ de Mars, 1 Hendey-Norton Lathe, at Vincennes 4 Hendey-Norton Lathes, with both Metric and English screws, 3 Hendey Shapers, all machines belted, and visitors are cordially invited to inspect and test them.

OUR FACTORY was established in 1870, and now covers three acres of floor space of Modern, Slow-burning Construction, fitted with fire sprinklers, modern conveniences and comforts for employees, and well heated and lighted. We employ 430 skilled mechanics, of whom we require accurate work, all of which is carefully inspected, tested, and record kept.

OUR AGENTS: France, Adphe. Janssens, 16, Place de la Republique, Paris. Germany, Scandanavia, Austro-Hungary, Russia, Switzerland, Belgium, Schuchart & Schutte, 59 Spandauer-Strasse, Berlin. Great Britain. Chas. Churchill & Co., Ltd., 9 Leonard St., London. Italy, Stussi & Zweifel, Via Dante 8, Milan.

The Lunkenheimer Company

Established 1862

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BRANCHES:

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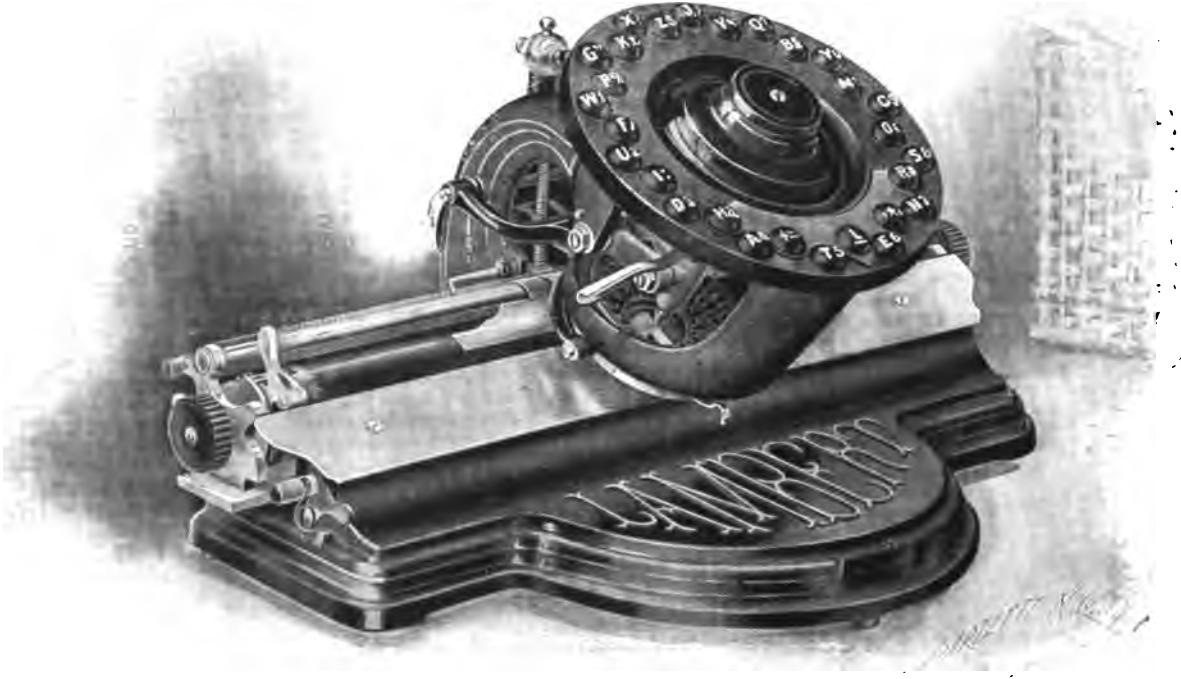
LONDON: 35 GREAT DOVER STREET.
PHILADELPHIA, NEW ORLEANS,
MEXICO CITY.

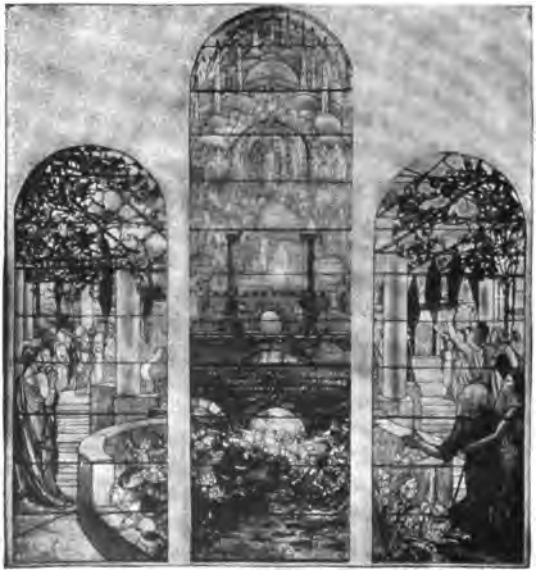
Makers and Patentees of Superior Valves, Whistles, Pop Safety Valves, Cocks, Gauges, Injectors, Lubricators, Oil and Grease Cups, and Engineering Appliances of every description for Steam, Water, Gas, Air, Oil, etc. Write for Catalog.



THE LAMBERT TYPEWRITER

Manufactured by The Lambert Typewriter and Co., 105 Fulton Street New-York City

The exhibit of the Tiffany Studios, New York, is situated in the center of the American Section in the Rotunda in the Building of the Varied Arts and Industries.



"THE RIVER OF THE WATER OF LIFE."
A MEMORIAL WINDOW OF TIFFANY FAVRILE GLASS.
DESIGNED BY MR. LOUIS C. TIFFANY.

The exhibit includes artistic glass and metal work, and a full collection of Tiffany Favrile Glass, Electric and Oil Table and Reading Lamps, Stained Glass Windows, Enamels, Ecclesiastical Embroideries, and various other objects made of combinations of metal and glass.

The articles exhibited are chiefly from the designs of Mr. Louis C. Tiffany, the artist.

Tiffany & Co

UNION SQUARE
NEW YORK CITY U S A

Diamond and Gem merchants, cutters of Diamonds and Precious Stones and general lapidaries.

Gold and Silversmiths and artistic workers in other metals.

Jewelers and Silversmiths by special appointment to Her Majesty Queen of England, the Emperor of Russia and the principal Courts of Europe.

Grand Prix and the Legion of Honor, Paris Expositions, 1878 and 1889.

BRANCH HOUSES IN EUROPE:

PARIS: AVENUE DE L'OPÉRA, 36 BIS.
LONDON: 221 AND 221A REGENT ST., WEST

Tiffany Pavilion at the Entrance to the United States Exhibits
Palace of Varied Industries

EAST RIVER NEW YORK

My dear Mrs. Vanderslick:

Indeed, I have no special engraver. It is the new shuttle of my typewriter. I am writing all my letters on it, in several languages. Some of us are even threatening to dispense entirely with our secretaries. Really, you should get a machine.

Ever yours,

Florence

West End, London. (Duchess of ------)

P.S.-You can get a charming picture of East River,-with your (?) yacht in the foreground,-with the Brooklyn Bridge and Goddess of Liberty in the distance, by writing "The Hammond Typewriter Company, 69th to 70th Streets, East River, New York." Better also get samples of manifolding and mimeograph work in various styles of type and different colors.

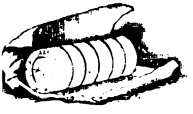
F.

(PHOTO. FAC-SIMILE OF HAMMOND TYPEWRITER WORK)

WILLIAMS' SHAVING STICK

"LUXURY" SHAVING TABLET

"YANKEE" SHAVING TABLET



WILLIAMS' BARBERS' SHAVING TABLET

JERSEY CREAM TOILET SOAP

Williams' American Shaving and Toilet Soaps

For Williams' Shaving Soaps we Claim the following points of superiority:

1st The exceedingly—Rich—Thick—Cream-like Copious Lather produced by them.

2nd The remarkably lasting quality of this lather, as shown by the length of time it retains its moisture after being applied to the face.

3rd The peculiarly softening action of the lather upon the beard, and the soothed, refreshed condition in which it always leaves the face, after shaving.

4th Convenience and attractiveness of style of soaps and containers.

For Williams' Toilet Soaps we claim:

1st High quality of the Soap, due to character and purity of materials used, and to the care used in the manufacture.

2nd Creaminess and softness of the lather produced.

3rd Attractiveness of packages.

THE J. B. WILLIAMS CO.

Home Office:
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U. S. A.

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Paris
Dresden
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GUARANTEED DECALCOMANIA TRANSFERS
WHY WE LEAD
FROM MAKER TO USER
LARGEST FACTORY EXCLUSIVE AUTOMATIC MACHINERY
QUICKEST DELIVERY MOST AND VARIED ARTISTS
MAKE OUR OWN PAPER MAKE OUR OWN GOLD LEAF
MAKE OUR OWN COLORS SELL OUR OWN GOODS
SELL ALL WE MAKE KEEP OUR PROMISES
GUARANTEE OUR PRODUCT
SKETCHES SUBMITTED FREE CATALOGUES SUBMITTED FREE
OPTOMISTIC NEVER PESSIMISTIC
THE MEYERCORD CO.
AMERICAN MANUFACTURERS
GUARANTEED DECALCOMANIA TRANSFERS

MAIN OFFICE CHAMBER OF COMMERCE BLDG. CHICAGO, U.S.A.

GORHAM MFG. CO.

GOLD AND SILVER SMITHS

UNITED STATES OF AMERICA

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AND NEW YORK

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FELIX HANLON, Pres. SAMUEL CREIGHTON, Treas. JAMES HOOD, Secy.

ESTABLISHED 1870. INCORPORATED 1894.

DUNGAN, HOOD & CO. INCORPORATED.

MANUFACTURERS OF

GLAZED KID

BLACK AND FANCY COLORED.

MADE FROM BRAZILIAN GOATSKINS OUR OWN IMPORTATION.

2100 ONLY GLAZED KID Manufacturers awarded SILVER MEDAL and DIPLOMA at National Export Exposition, Phila. 1899. U.S.A.

AMERICAN ST. PHILADELPHIA, PA.

TAKE FRONT & TIOGA CAR ON THIRD ST., OR LEHIGH AVE. CAR GOING NORTH ON FIFTH ST., TO DIAMOND.

CABLE ADDRESS "DUNHOOD"

A.B.C. CODE USED

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LARGEST IN THE WORLD

SUGAR COATERS OF

High Grade
Confections and Sweetmeats

We have in a few years established an enviable reputation for the edible qualities and appearances of our confections and sweetmeats.

With due realization of the necessity of the best ingredients for the best results, we have never varied from the established principle.

Our workman are the most skilled, intelligent and clever in conception of the consumers wants.

In size, system and equipments, there is no factory so well adapted to its specialty as our own.

Officered by men of high attainments and standing in the commercial world, we feel sufficiently capable of properly catering to the consumption of sweetmeats and confections.

Our daily out-put of 60,000 pounds, is distributed throughout the world.

A marked increase in our exportations is due to the salability and keeping qualities of our confections in warm climates. Our candies do not get stale, and unpalatable with age.

The most attractive and practical ways of packing have been conceived by us.

We have established agencies throughout the world.

We solicit requests for our descriptive and illustrated catalogue.

Sample shipments, costing $7.50 per case, delivered to New York, of fifty (50) one pound attractive tins, each filled with a different confection or sweetmeat, can be ordered direct, or through any reliable New York commission house.

Sincerely hoping our exhibit may prove attractive enough to warrant your further interest and correspondence with us, we remain,

Very obediently yours,

PAN CONFECTION CO.,

248-250 E. ILLINOIS STREET, CHICAGO, ILL., U. S. A.

HENRY H. ROELOFS & CO.

Brown and Twelfth Streets
PHILADELPHIA, U. S. A.

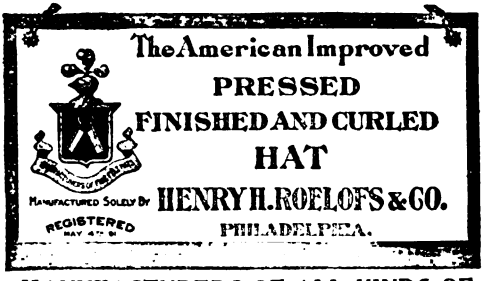
MANUFACTURERS OF

Fine Fur Felt Stiff and Soft Hats

SOLE MANUFACTURERS OF THE

American Improved Pressed Hats

(TRADE MARK AS BELOW)



MANUFACTURERS OF ALL KINDS OF

FINE FUR FELT SOFT HATS

(TRADE MARKS AS BELOW)

Catalogue of Styles Sent Free on Application

Our Hats received the Highest Award at the National Export Exposition, held in Philadelphia, U. S. A., September 14th to November 30th, 1899

Paris Agents, A. BERTEIL & CO.

Place St. Augustin, 91 Boulevard Haussmann, 134 Boulevard St. Germain, 18 Rue De L'Anc'e Comedie, 79 Rue de Richelieu, 19 Rue Du 4 Septembre.

FOR SALE BY ALL THE LEADING RETAIL HATTERS THROUGHOUT THE WORLD.

A SHORT HISTORY OF

The Peace Dale Mfg. Co.

of Peace Dale, Rhode Island, U.S.A.

Business begun by Rowland Hazard, 1801.

First power loom in America, if not in the world, started in 1815.

The first manufacture was of coarse woolen cloth, followed by finer grades, and then by rugs and shawls, the principal business of the company for many years. Peace Dale Shawls were, and are, noted for sound fabric and lasting fine colors.

The incorporation of the company, 1848.

The first complete plant in America for the manufacture of worsteds, in all the processes from the raw material to the finished cloth, 1872.

A steady increase and improvement in methods and plant from 1801 to 1900.

The product is today:

First, Woolens:

Friezes in 28, 34, and 40 ounces, in piece-dyes and mixtures.
Cassimeres and Cheviots for men's wear.
Homespun and Fancy Suitings for women's wear.
Golf and Outing Cloths.
Rugs in three grades and many styles.
Overcoatings, Carriage Rug Linings, etc.

Second, Worsteds:

Serges, both piece-dyes and mixtures, in three grades and in weights from 8½ to 24 ounces, the most important product of the company.

Overcoatings, etc.

The output is strictly all wool and very largely made from domestic fleeces. No admixture of cotton is used in any fabric.

The coarsest grade of the worsted is made from long staple American wool, with a percentage of quarter blood Australian cross-bred combing. It is intended to be serviceable and stylish.

The medium grade is of domestic and Australian combing stock. This American wool is long, strong, and of most lasting quality, while the Australian gives softness and finish. The combination is the correct blend for worsted serges.

The finest grade is made of Australian wool.

Peace Dale is in Rhode Island, near the sea, and has the benefit of uniform humidity and equable climate. The village is attractive. The houses of the operatives are well built and kept in good repair. A system of profit-sharing was in force for a number of years, and in the improved condition of business, has been revived. Many things are done in Peace Dale for the benefit of the employees of the mill in the way of the library, reading rooms, gymnasium, baths, lectures, concerts, singing societies, etc. All of these are believed to contribute to the welfare of the operatives, and so to the good quality of the product.

The business has been conducted by four generations of the Hazard family.

The selling agents have been always the same; one house and its business successors for a long series of years. The firm is at present Lawrie, Mann & Drowne, 61 Leonard Street, New York.

Arlington Mills, Lawrence, Mass., U.S.A.

The Arlington Mills are situated in Lawrence, Massachusetts, U.S.A.

The Corporation was formed in 1865, and its capital stock has been increased at different times until it has reached the present amount, $2,500,000.

The business is divided into four departments—a Worsted Top Mill, a Worsted Yarn Mill, a Cotton Yarn Mill, and a Worsted Dress Goods Mill.

First.—The manufacture of worsted tops, made from nearly all the varieties of combed wools grown in the world, is a large and growing feature of the business, The tops made of all these varieties of fibres are offered to worsted spinners. A commission combing business is also done, and this part of the work has grown to large proportions.

The Top Mill has a capacity which will enable it to produce 300,000 pounds of top a week, requiring for its production between 600,000 and 800,000 pounds of greasy wool per week; in other words, the fleeces of 20,000 sheep will pass through its machinery every day that it is in full operation.

Second.—In the Worsted Yarn Department yarns are made, on both the English and French systems of spinning, from the tops manufactured at the Top Department. While there is a great variety of uses to which these yarns are put, the principal sales are to the weavers of men's wear goods and the knitters of underwear and hosiery. These yarns are made in all degress of fineness—in the grey, solid colors, fancy mixes, Jasper effects, and in double and twists.

Third.—The Arlington Mills also manufacture, in addition to its own requirements, fine combed cotton yarns for sale to manufacturers and knitters. These yarns are manufactured from the longest staple Egyptian, American, and Sea Island cottons, and are spun in all numbers and delivered in all varieties of forms required by the purchaser.

A recent development of the cotton-yarn trade is the process of mercerizing, in which line the Arlington Mills are very large manufacturers. By this process yarns are given a very brilliant lustre, almost equal to that of silk, and the uses for this product are very extensive.

Fourth.—In its dress goods business it has always been the aim of the management to provide for the people at large, and this has greatly broadened the scope of the work in this department, so that at present the Mills have facilities for the manufacture of nearly every kind of worsted fabric for women's and children's wear, whether the weave be plain or fancy, the colors solid or combined in plaids, figures, or stripes; whether the fabric be made of white yarns for subsequent piece-dyeing, or of yarns dyed in the wool or top.

The Arlington Mills' dress goods in the cheaper varieties and the finer fabrics are recognized by the trade at large as equal to the best products of the looms of Europe.

Perhaps the most characteristic feature of this branch of the Arlington Mills business is the manufacture of specialties for the trade on orders which have heretofore been made solely in Europe. This business lately has grown into large proportions.

From the above it will be seen that all the processes of manufacture, from the raw cotton and raw wool to the various finished products are carried on under one management and one corporation.

The total number of employees of the corporation, in all its departments, is 4,350.

The Executive Offices of the Corporation are located at 78 Chauncy street, Boston, Massachusetts, U.S.A.

JOHN B. STETSON COMPANY

PHILADELPHIA, U.S.A.

MANUFACTURERS OF THE FINEST GRADES OF

SOFT AND STIFF

FELT HATS

The Makers of STETSON HATS were awarded the

GRAND PRIZE
PARIS - 1889

The Stetson Exhibit is located in Textile Pavilion, Group XIII

Illustrated Catalogue will be mailed on request to any reliable hatter

COLUMBUS BUGGY CO.

COLUMBUS, OHIO, U.S.A.

BUILDERS OF

FINE VEHICLES

SUITABLE FOR
ALL COUNTRIES AND ALL CLIMES.
200,000 NOW IN USE.

UNEXCELLED
IN STYLE
FINISH AND
WORKMANSHIP.

AMERICAN TIMBER
IS THE BEST
IN THE WORLD
FOR
VEHICLE BUILDING

IT MAKES THEM
STRONG, LIGHT, DURABLE.
THEY STAND THE SEVEREST TEST AND HARDEST USAGE.

WRITE FOR CATALOGUE OF 100 STYLES

STANDARD THE WORLD OVER

THIS trade-mark is on the Ace of Spades card in every pack of U. S. Playing Cards.

We make all kinds of playing cards to suit the requirements of any country.

We have over two thousand patterns in use.

We make private brands for clubs everywhere.

We ship to every country in the world where government regulations permit.

We make three-fourths of all the playing cards sold in the United States (according to internal revenue reports published by the United States Government).

Our exhibit is inside rotunda at main entrance to Stationers of the United States.

For information about playing cards and card games, write to

The United States Playing Card Co.

CINCINNATI, O., U. S. A.

LONDON OFFICE:

172 GRAY'S INN ROAD, W. C.

F. E. REED COMPANY, WORCESTER, MASS., U. S. A.

MANUFACTURERS OF MACHINE TOOLS.
ENGINE LATHES A SPECIALTY.

WE MANUFACTURE a standard line of Engine Lathes of 12, 14, 16, 18, 20, 22, 24, 27 and 30 inches swing; Special Turning Lathes, having two Patented Elevating Tool Posts, 16 and 20 inches swing; Turret-Head Chuck Lathes, 16, 20 and 30 inches swing; Stud and Bolt Lathes, 16 inches swing; Screw Cutting Lathes, 10 and 12 inches swing, for use of amateurs, operated by foot power or other power; Hand Lathes, 9, 11, 12, 14, 16 and 26 inches swing, and Slide Rests for same; a special 10 inches swing Wood Turning Lathe for use of educational institutions (lathes of our manufacture, of various sizes and styles, are in use in more than 150 educational institutions, in all civilized countries). All of the foregoing are fully illustrated and described in our illustrated catalogue which we shall mail, free to all who make application for it.

OUR EXHIBIT. At Champ de Mars we have on exhibit one complete 12-inch swing Engine Lathe; and at Vincennes one each of the following complete lathes: 10, 12, 14, 16, 18, 20, 22 and 24 inches swing Engine Lathes, 20 inches swing Special Turning Lathe, 10 inches swing Screw Cutting Foot Power Lathe, 10 inches swing Special Wood Turning Lathe for manual training use. These lathes represent and embody the latest and most approved designs in points of design, power, strength, workmanship and convenience in handling, in use in the United States, up to date.

OUR PLANT was established in 1875, employing at first 6 workmen, and now giving employment to over 300 skilled mechanics. Our buildings contain 2.2 acres of floor space, and are thoroughly well constructed by us with special reference to the manufacture of lathes. They are well lighted and heated, and are provided with every machine and special tool which experience can supply, for the manufacture of lathes to the best possible advantage.

OUR PRODUCT. We quote the words of our diploma, received at the World's Columbian Exposition, Chicago, in 1893, which we believe is applicable to our product now, as well: "Award for collection of Standard Engine Lathes, ranging from 10 to 30 inches swing, especially designed for the average run of work and to furnish the purchaser with a thoroughly good machine at a reasonable price—a difficult problem successfully solved. To meet this requirement these machines are simple in construction and operation and arranged to prevent breakage by negligence on the part of the operator. The design of the lathes is in conformity with standard practice, and the workmanship is of a high character." The utmost care is used in the construction of each lathe. Each machine has its own individual number stamped upon it and undergoes a thorough inspection at the hands of a competent, experienced inspector before leaving our works, and a written report of the inspection handed into our office for reference; thus each lathe leaves our hands as nearly perfect, practically, as it is possible for us to have it.

OUR AGENTS are: for France, Belgium, Switzerland, Italy and Spain, Fenwick Freres & Co., main office, 21 Rue Martel, Paris; for Germany and Austria, Gustav Diechmann & Sohn, main office, Neue Promenade 4, Berlin C 22; for Russia, G. Koeppen & Co., Moscow; for Holland, van Rietschoten & Houwens, Rotterdam; for Great Britain, Chas. Churchill & Co., Ltd., 9 Leonard St., London.

*

THE Celebrated "Victor" Turbine

Now in use in all parts of the world

We are the most extensive manufacturers of Turbine Water Wheels in the world. Our great variety of designs and sizes enable us to meet almost any requirement.

WE MAKE A SPECIALTY OF COMPLETE WATER POWER PLANTS.

The Stilwell-Bierce & Smith-Vaile Co.

Capital $1,100,000.00

Factories and Head Office, DAYTON, OHIO, U. S. A.

Sales Agency for Great Britain and Europe.
FRED NELL, 97 QUEEN VICTORIA ST., LONDON, E. C.

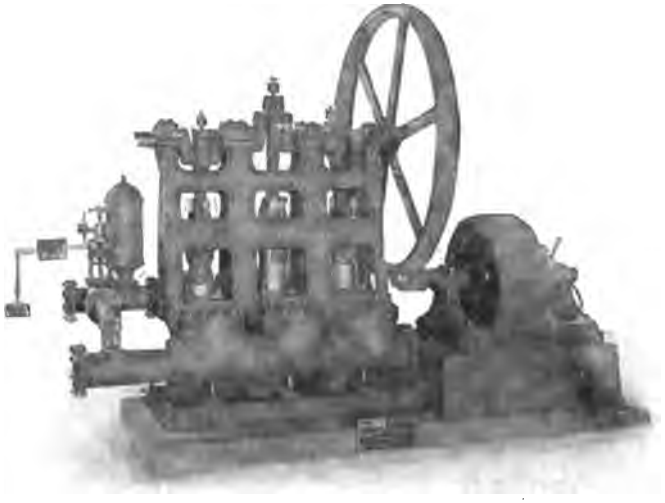
Cable Address { "Stilwell" Dayton / "Turbinatus" London

Codes { Liebers, / A.B.C., 4th Edition

TRIPLEX PUMP

DRIVEN BY

ELECTRIC MOTOR



PUMPING MACHINERY

of all kinds and adapted for all purposes; Air Compressors, Straight Line, Duplex and Cross-Compound, both Steam and Belt Actuated; Oil Mill Machinery; Hydraulic Machinery; Ice and Refrigerating Machinery. Manufactured by . . . . . .

The Stilwell-Bierce & Smith-Vaile Co.

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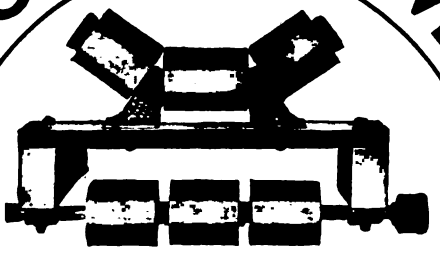
ROBINS BELT CONVEYORS

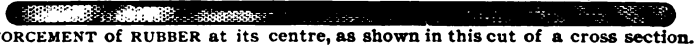


CARRY COAL & ORE

THE **ROBINS PATENT BELT CONVEYORS** are in use **all over the world**, handling coal, ore, sand, gravel, dredgings, cement and other materials.

The FUNDAMENTAL PRINCIPLE of these conveyors is the PERFECT SEPARATION of the CONVEYING parts from the RUNNING parts. The POWER REQUIREMENTS are therefore MUCH LOWER than those of ANY OTHER CONVEYING SYSTEM. The material is carried at a MINIMUM OF FRICTION on the troughed belt and is delivered AT ANY POINT or POINTS along its length.

The DURABILITY OF THE BELT is rendered VERY GREAT by the REIN-



FORCEMENT of RUBBER at its centre, as shown in this cut of a cross section. Any ordinary belt used for carrying heavy material lasts but a short time.

These conveyors have a CAPACITY as high as 1500 TONS PER HOUR. They can ELEVATE at a 50 PER CENT GRADE. They DO NOT BREAK the MATERIAL carried. Their BEARINGS are DUST-PROOF. Their SIMPLICITY MINIMIZES the COST OF REPAIRS and insures ABSOLUTE FREEDOM FROM SHUTDOWNS.

A BRIEF EXAMINATION of any OF OUR EXHIBITS will demonstrate the truth of these statements.

OUR EXHIBITS ARE LOCATED AS FOLLOWS:

MACHINERY AND ELECTRICITY BUILDING:
Space 5, Block 16, U. S. Section. Two 20 inch Belt Conveyors in operation. Our main office is with this exhibit.

PALACE OF MINES AND METALLURGY:
United States Section. Two Model Belt Conveyors, with Movable Tripper in operation.

VINCENNES:
U. S. Triangle, near Machinery Building. Two 20 inch Belt Conveyors and Movable Tripper in operation.

ROBINS CONVEYING BELT COMPANY

PARK ROW BUILDING, NEW YORK, U.S.A.

CABLE ADDRESS, DURABELT, NEW YORK. A.B.C., LIEBERS' & WESTERN UNION CODES USED

The J. A. Fay & Egan Company

OF CINCINNATI, OHIO, U.S.A.,

one of the largest exhibitors at the American Section, grew in fifty years from a capacity of one machine per month to its present output of over fifty machines per day. This Company owns the large works of J. A. Fay & Company and of The Egan Company, both at Cincinnati, which were absorbed into one Company in 1893 under the name of J. A. Fay & Egan Company.

The Company has an exhibit at Champ de Mars, where it shows in operation a number of the simpler machines, such as are used in furniture and other light manufacturing; while at Vincennes it shows a complete line of wood-working machinery of every kind, including all the heavy car and ship building tools in operation.

The most conclusive and convincing proof of the excellence of its products lies in the fact that it supplies the best trade in the world, and

WORKS OF J. A. FAY & EGAN COMPANY, CINCINNATI, OHIO, U.S.A.

its export trade is larger than that of all similar American concerns combined. Its machines are in use in every civilized country on the globe, and the Company has never failed to receive the highest prize wherever its machines were exhibited. It has received no less a recognition than the Decoration of the Legion of Honor, conferred by the French Government on the occasion of the 1889 Exposition. It ranks as the great designer and inventor of automatic labor-saving wood-working machinery, and stands in the relation of advisor to many of the World's most famous railway-car and ship building works.

Engineers should visit the Company's wonderful Exhibit at Vincennes and examine its machines at Champ de Mars, where Mr. G. P. Altenberg, the Company's Foreign Manager, who is well known to many of the European Engineers, will be pleased to show to the Engineers and their Principals plans illustrating the American method of building and designing modern factories where wood-working machinery is used.

Western Electric Company

CHICAGO, ILLINOIS

ELECTRICAL MANUFACTURING

EXHIBIT ELECTRICAL APPLIANCES GROUP 5, CLASS 23, 25, 26

MEDALS RECEIVED AT THE FOLLOWING:

International Exhibition "Centennial" Philadelphia, U.S.A., 1876

Exposition Internationale De l'Electricite, Paris, 1881

Centennial International Exhibition Melbourne, Australia, 1888

Exposition Universelle Paris, 1889

World's Columbian Exposition Chicago, 1893

DETAILED DESCRIPTION OF EXHIBITS

Exhibits of Telephone, Telegraph, Fire Alarm, Electric Lighting and Power Transmission Machinery, as follows:

Telephone

A complete Telephone Exchange Equipment illustrating the latest American practice, showing various forms of subscribers, instruments and other appliances, all in practical operation; lines are extended and instruments located at different points about the Exposition.

Telegraph

Complete set of Telegraph Instruments in operative condition, illustrating latest devices.

Fire Alarm

Complete Fire Alarm and Police Call Instruments with different styles of call boxes, complete apparatus in operative condition.

Electric Lighting

Dynamo driven by Motor, direct connected on one sub-base, operated and controlled by Switchboard, complete in all details. Arc Lamps of constant current series type and of the constant potential enclosed type and also Incandescent Lamps and Fan Motors.

Power Transmissions

Motors driven by above generator of open, semi-encased or completely encased types.

The company has always a representative in attendance for purposes of explaining exhibits to visitors, in addition to attendants employed in operating the exhibit.

WESTERN ELECTRIC COMPANY

CHICAGO, NEW YORK, PARIS, LONDON, ANTWERP, BERLIN

WAGNER ELECTRIC MFG. CO.

BUILDERS OF

Self Starting Single Phase A. C. Motors.
Transformers for all Kinds of Service.
Direct Current Motors and Generators.
All Kinds of Switch Boards.
High Grade Knife Switches.
Indicating Switch Board Instruments.
Ventilating Fans for Direct and
Alternating Currents.
Automobile Charging Outfits.
High Tension Fuse Cut-outs.
Wrought Copper Terminals.

GENERAL OFFICES AND WORKS:

ST. LOUIS, MISSOURI, U. S. A.

FOREIGN DEPARTMENT:
222 HAVEMEYER BUILDING, NEW YORK CITY, U. S. A.

OIL WELL SUPPLY CO.

PITTSBURG, PENNSYLVANIA, U.S.A.

EXHIBIT: U. S. TRIANGLE, BOIS DE VINCENNES.

An Oil Well after it has been torpedoed. The Oil is sometimes thrown 200 feet into the air.

The Oil Well Supply Co. Manufacture every essential appliance for drilling or sinking deep Artesian Wells. Boilers, Engines, Drilling Tools, Drive Pipe, Casing, Tubing, Line Pipe, Brass and Iron Fittings.

ESTIMATES FURNISHED ON APPLICATION.

2200 MEN EMPLOYED IN THEIR VARIOUS FACTORIES

SMITH & WESSON

SPRINGFIELD, MASS.,
U.S.A.

MANUFACTURERS OF

MILITARY, POLICE, POCKET AND TARGET

REVOLVERS

TRADE MARK

This Trade Mark is stamped upon all genuine Smith & Wesson Revolvers.

You are cordially invited to inspect our display in the Palace of Forestry, Fisheries and the Chase

SPACE No. 30.

UNITED STATES SECTION.

Do not fail to visit our gallery at the Bois de Vincennes where a practical demonstration of the operation of our arms may be seen.

THE

JOHNSTON HARVESTER CO.

BATAVIA,
NEW YORK,
U.S.A.

European Office:
13 Rue de l'Aqueduc
Paris, France

BYRON E. HUNTLEY, President.

Mowing Machines — Reaping Machines

Combined Reapers and Mowers

Harvesters and Binders for Grain

Harvesters and Binders for Corn (Maize)

Headers — Header-Binders

Disk Harrows, or Pulverizers

Disk Corn Cultivators

Hay Rakes — Hay Tedders

Paris Exposition, 1900
United States Annex, Pavilion of Agriculture

THE BABCOCK PRINTING PRESS MANUFACTURING COMPANY

does a large business, building many sizes and styles of printing presses. One of their best machines, the "Optimus," is on exhibition in the Quinceconce Annexe, Group 3.

This press is properly constructed for great strength, and especially to resist the strain of impression. The side frames and center cross girt, which rests on these frames are very heavy; and the bed, with its six steel-shod tracks, is supported by this girt in a way that entirely prevents springing. The cylinder is lifted by eccentrics, without joint between the lifting device and the cylinder.

This press runs smoothly at high speed. The ball and socket universal joint permits the use of a large driving gear, which consumes one-third of its time in reversing the bed; this slow, easy rounding of the centers, in connection with the very efficient air spring, avoids all jar and produces the smooth, even motion of the Optimus. A study of the ball and socket joint, referred to above, will show that it is mechanically correct and gives a perfectly regular motion to the bed while printing.

By the gearing of the "angle" or distributing rollers, they are positively driven, the distribution of the ink is improved and the composition will last much longer. The form and distributing rollers are interchangeable, enabling the printer to use all new rollers, first on the form and when partly worn, as distributers. The roller bearings are so arranged that any of the rollers may be removed without altering the "set"; and the composition rollers may be released from contact without removing them from their bearings.

The "Optimus" delivers the sheets without touching the printed surface, piling them printed side up, in plain view of the pressman, and directly over the fountain. There are many other advantages of this delivery that are especially worthy of careful consideration.

Among the many other excellent features of the "Optimus" press, are the Safety Gripper Mechanism, which register perfectly; the Impression Trip, the Reversing Mechanism, the Positive Slider Controlling Mechanism, the Piston Head and Air Spring (which are remarkably easy of adjustment), and the Valve for removing the spring when desired.

THE BABCOCK PRINTING PRESS MANUFACTURING COMPANY, NEW YORK, U.S.A.

JOHN HADDON & COMPANY,

Agents for Great Britain, Bouverie House, Salisbury Sq., Fleet St., E.C., London, Eng.

McCORMICK

HARVESTING MACHINE COMPANY,

CHICAGO, UNITED STATES OF AMERICA.

ESTABLISHED 1831.

Manufacturers of Self-Binding Harvesters, Reapers, Mowers, Headers, Hay Rakes, Corn (Maize) Binders, Corn (Maize) Shredders, Etc., and Binding Twine.

FOUR EXHIBITS, LOCATED AS FOLLOWS:

1. First Floor of Agricultural Annex. Finely finished specimens of self-binding harvester, reaper and mower, and models of other McCormick machines.

2. Third Floor of Agricultural Annex. By authority of the United States Government, a Retrospective Exhibit of models in motion, with horses attached, representing the development of the art of harvesting grain, as shown by McCormick Machines, from the first practical reaper, invented by Cyrus H. McCormick in 1831, to the latest McCormick Machines, the highest examples of the art.

THE McCORMICK BUILDING AT VINCENNES.

3. Balcony of Agricultural Building. Exhibit of binding twine, with representations of figures of natives gathering and preparing Yucutan sisal and Manilla hemp; and photographs of the processes of manufacturing twine.

4. At Vincennes. Exhibit of full-sized specimens, in operation, of all McCormick Machines, in a special building erected by the McCormick Company; also historical models, photographs of harvesting scenes throughout the world, and a scenic representation of the great McCormick Works.

The McCormick Harvesting Machine Company is the oldest organization in the world engaged in the manufacture of harvesting machinery. The business was founded in 1831 by Cyrus H. McCormick, who then invented and built the first reaper. In 1847 C. H. McCormick and brother located in Chicago, foreseeing that this city was destined to become the great grain center of America. Here the business grew year after year, until to-day it is the largest establishment of its kind on earth, with an output of 1,400 complete machines each day of ten hours, equal to nearly one-half the world's output of harvesting machinery. The blacksmith shop in which the first reapers were built has grown into what is undoubtedly the most remarkable organization in the world of labor-saving "machines that make machines."

The dominant feature of McCormick machines is their high standard of quality. All the resources of the McCormick Company, the largest of its kind in the world, are concentrated to secure perfection in materials, workmanship, mechanical design, durability and efficiency. That McCormick machines are universally recognized as the world's best, is shown by the record of more than 800 World's Exposition and Field Trials, in which the McCormick, almost without exception, has received the highest awards. A few of the most notable honors awarded to the McCormick are the following :

GRAND COUNCIL MEDAL. World's Fair, London, 1851.

(*Extract from the Report of the Council of Juries.*)

"The McCormick Reaper is the most valuable article contributed to the exposition, and for its originality and value and its perfect work in the field, it is awarded the Council Medal."

GRAND GOLD MEDAL. Universal Exposition, Paris, 1855.

(*Extract from the Report of the Judges.*)

"On the McCormick invention all grain cutting machines are based . . . . . and it (the machine), as well, is the one which worked the best in all its trials."

GRAND GOLD MEDAL. National Field Trial of Harvesters, U. S. A., 1857.

"For the best reaping machine."

GRAND PRIZE. International Exhibition, London, 1862.

GRAND GOLD MEDAL. International Exposition, Hamburg, 1863.

(*Extract from the Official Prize List.*)

"Cyrus Hall McCormick, Chicago, Illinois, the Gold Medal for the practical introduction and improvement of the reaping machine."

GRAND GOLD MEDAL. Universal Exposition, Paris, 1867.

(*Extract from Report of Eugene Tisseraud, Director-General of the Imperial Domains.*)

The man who has labored most in the general distribution, perfection and discovery of the first practical reaper is assuredly Mr. McCormick, of Illinois.

"In all the universal Expositions the first prize has been awarded to this admirable machine, and at this time at Vincennes, as at Fouilleuse, under the most difficult conditions, its triumph has been complete. Mr. McCormick has been judged worthy of the highest distinction of the exposition."

DECORATION CROSS OF THE LEGION OF HONOR. Awarded by Emperor Napoleon III on the field trial at the Universal Exposition, Paris, 1867.

TWO GRAND GOLD MEDALS. The Universal Exposition, Vienna, 1873.

TWO BRONZE MEDALS. Centennial Exposition, U. S. A., 1876.

GRAND GOLD MEDAL. Universal Exposition, Paris, 1878.

DECORATION OFFICER OF THE LEGION OF HONOR. Awarded by the French Minister of Agriculture, Universal Exposition, Paris, 1878.

SPECIAL GOLD MEDAL. Awarded by the Society of Agriculture of France and the French Minister of Agriculture, Universal Exposition, Paris, 1878.

OBJECT OF ART. Awarded by the Society of Agriculture of France, International Exposition, Paris, 1878.

BRONZE MEDAL. International Exposition, Sydney, Australia, 1879.

GOLD MEDAL. International Exposition, Melbourne, Australia, 1880.

GRAND GOLD MEDAL. Cotton Exposition, 1881, Atlanta, U. S. A.

TWO SILVER MEDALS. International Mining and Industrial Exposition, Denver, U. S. A., 1884.

BRONZE MEDAL. Jubilee International Exposition, Adelaide, Australia, 1887.

GOLD MEDAL. International Exposition, Melbourne, Australia, 1888.

GRAND PRIZE. International Exposition, Paris, 1889.

BRONZE MEDAL. World's Columbian Exposition, Chicago, 1893.

That McCormick machines are maintaining their high position is shown by the report of the Judges of the World's Columbian Exposition, after exhaustive field trials :

"The machines are splendid examples of the highest contemporary state of the art in design, construction, operation, and economical performance."

The Miller, DuBrul & Peters Mfg. Co.

ESTABLISHED 1870

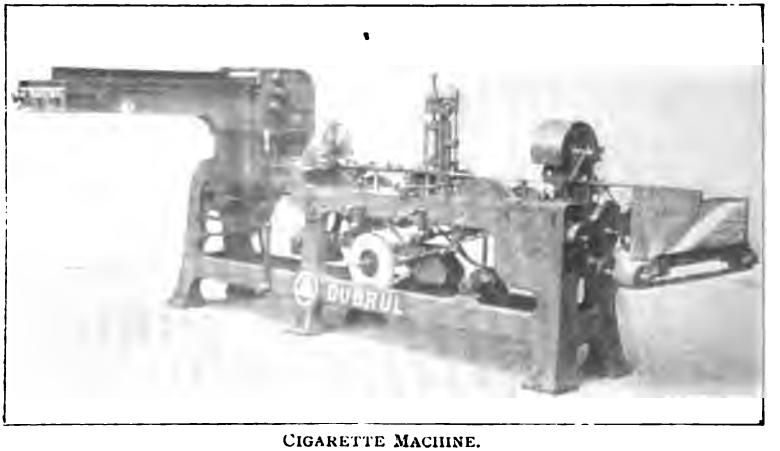
MANUFACTURERS OF

CIGAR AND CIGARETTE MACHINERY

CIGAR BUNCHING MACHINE.

Picadura Tobacco Cutter,
Suction Cigar Rolling Machine,
All tobacco Cigarette Machines,
Cigar Branding Machines,
Cigar Making Tools.

CIGAR MOLDS—4,000 SHAPES



CIGARETTE MACHINE.

CINCINNATI, OHIO,
507-519 East Pearl Street

NEW YORK
404-408 East 32nd Street

The object of this exhibit is to show the advance in the methods of wrapping up articles going to consumers.

Formerly it was leaves, then newspapers, then in order "Flat," "Square" and "Satchel Bottom" bags, and now

THE SELF OPENING BAG

In all other forms of bags, the grocer has to insert his hand to shape it to his purpose.

THIS TAKES TIME AND TIME IS MONEY

With this bag a gentle flip makes a square shaped paper box, ready to receive its contents without manipulation. SEVENTY PER CENT. of bags used in the United States are SELF OPENING.

The Union Bag & Paper Co.

CAPITAL $27,000,000

is a combination of all the companies in the United States making this shaped bag, and it controls over

TWO HUNDRED PATENTS

This Company owns its own timber lands, water powers, wood pulp, chemical mills and jute mills, and has eighteen paper mills and seven bag factories.

Present CAPACITY 30,000,000 bags per day.

Can deliver bags in any European seaport to compete with any home manufacturer.

Makes any style of bag of any grade of paper at prices beyond competition; quality considered.

The goods of this Company have easily taken the highest prizes in every competitive exhibition in which they have been entered, as follows:

World's Industrial Cotton Centennial Exposition, New Orleans, May, 1885
The World's Columbian Exposition, Chicago, 1893
Exposition Universelle D'Anvers, August, 1894
Food Exposition, Cincinnati, U. S. A., 1898

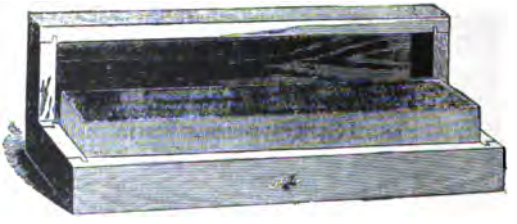
THE PIKE MFG. CO.

PIKE STATION, N. H., U. S. A.

World's Headquarters for

Scythe Stones
Oil Stones
Razor Hones

and Sharpening Stones for all purposes.



Pike's Lily White Washita Oil Stone

for Mechanics' Tools. In all shapes and sizes.

Pike's Hard Arkansas Oil Stone

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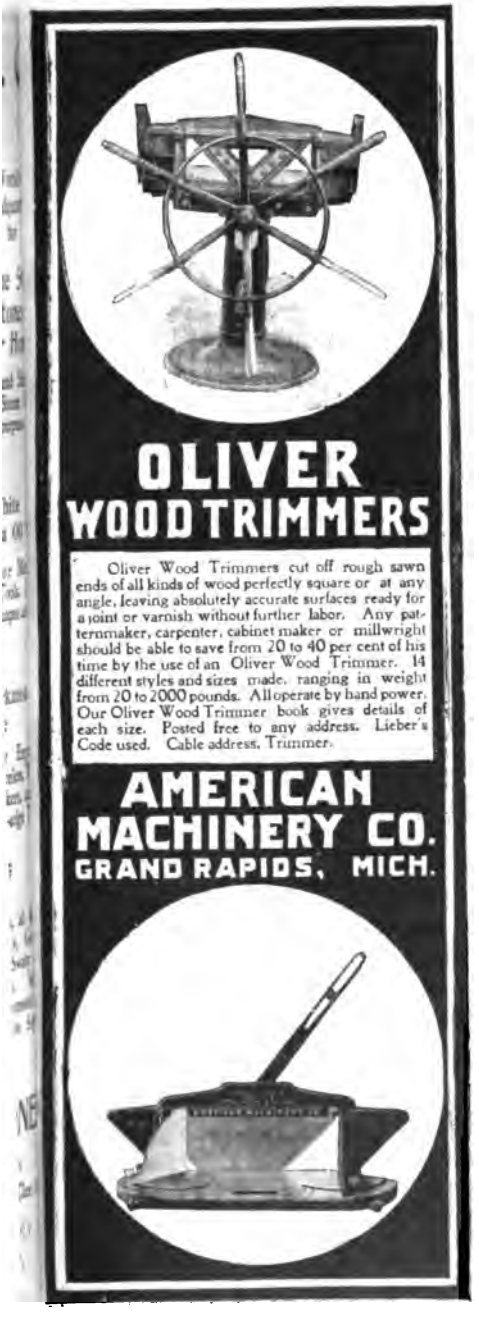
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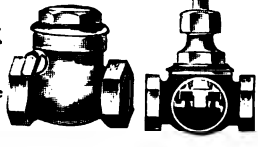

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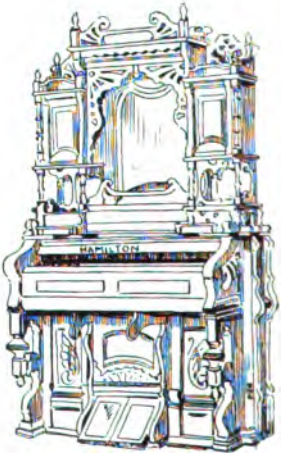

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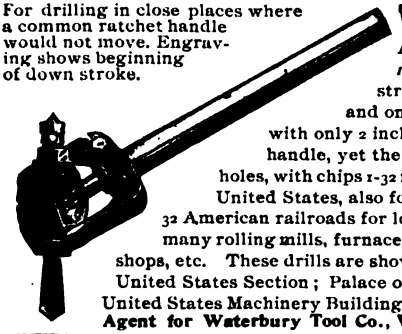

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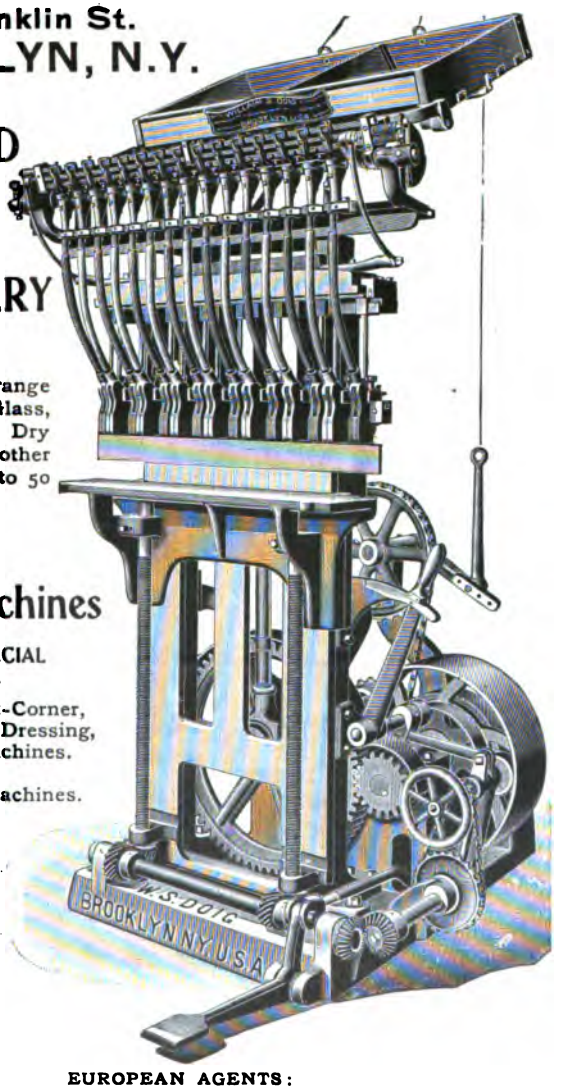

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